33

AN ESSAY

ON

THE TONGUE,

IN

FUNCTIONAL DERANGEMENT

OF THE

STOMACH AND BOWELS,

AND ON

THE APPROPRIATE TREATMENT;

ALSO,

THE TONGUE'S ASPECT IN ORGANIC DISEASE OF THE LUNGS
AND HEART, ETC. ETC.

SURGEONS

BY

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THE SECOND EDITION,

CAREFULLY REWRITTEN, WITH MUCH ADDITIONAL MATTER.

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TO

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THIS IS DEDICATED,

BY HIS FAITHFUL FRIEND,

THE AUTHOR.

PREFACE.

FROM the criticisms on the former edition, and from the acknowledged importance of the subject, we have been induced to carefully digest the matter contained in the preceding work.

The circumstances that led us to undertake an Essay on the Tongue, were, from observing the variations of the tongue's surface in functional derangement of the stomach and bowels; from the numerous but scattered observations of medical writers on this subject; from the want of precision in the language used; and, from the absence of any arrangement of such facts.

It was after much reflection that we began arranging the materials for the Essay, nor was it without considerable labour in selecting from the case-books those instances in which the tongue's aspect was described, and by the avoiding those in which the tongue's appearance might have been influenced by medicaments, that we were at length enabled to shape our proceedings; however, "in all labour there is profit," and the tongue presented itself under two principal aspects, namely, when the papillæ were developed, and when they were not observable.

In pursuing the subject, by arranging the cases in a tabular form, it became apparent that when the papillæ, especially the filiform and tuberose, were prominent or florid, that the gastric symptoms were the most prevalent, and this circumstance led to the examining the symptoms attending a development of the different orders of the papillæ. A careful analysis of these cases established the inference, that the stomach was specially affected when the filiform or tuberose papillæ were developed; hence "the tongue of gastric functional derangement."

A like review of the remaining cases led to the conclusion, that disturbance of the intestinal canal was accompanied with certain appearances of the tongue, the papillæ not being observable, and thus originated the "tongue's aspect in functional derangement of the intestines."

Having advanced thus far, it became an important object to apply the results of our labours to practical utility, and we have taken some trouble in ascertaining the most suitable mode of treatment. On this head much remains to be done, yet we have given the results of our treatment from observations in hospital practice, such sketch may be of use to those who have not the opportunities afforded by a public institution.

In the Third Part we have diligently rearranged, and added to, the tongue of organic change of the lungs and heart. We have also treated on a symptom as observed by us whenever present, to invariably indicate diseased lungs, namely, the movement of the alæ nasi.

Considering the novelty of the subject, which has hitherto been totally neglected, and the difficulties that presented themselves in the arranging, and in the analysing, a large series of observations, we deem that little apology is necessary for the imperfections of the treatise. We have endeavoured to work up the materials to the best of our ability, our sole object being that of ascertaining the value of the tongue's aspect in a comprehensive tribe of ailments.

COLCHESTER;
September, 1846.

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PART I.

TONGUE OF GASTRIC FUNCTIONAL DERANGEMENT.

CHAPTER I.

THE FILIFORM PAPILLÆ BEING FLORID; THE ASPECTS OF THE TONGUE WITH THE ACCOMPANYING SYMPTOMS AND INFERENCES.

TABLE OF CASES.

PAPILLÆ FILIFORM FLORID.					SYMPTOMS ACCOMPANYING.			
No.	*Sex.*	*Age.*	*Papillæ.*	*Tongue's Aspect.*	*Head.*	*Stomach.*	*Bowels.*	*General Symptoms.*
1	Female	30	Florid	Florid, fissured	No report	Gnawing pain	Costive	
2	Female	37	Florid	Florid, clean	No report	Nausea, vomiting	Costive	
3	Male	32	Florid	Florid, coated with a mucous fur	Headache	Uneasiness	Regular	
4	Male	39	Florid	Florid, thinly furred	Headache	Pain, tightness	Costive	
5	Male	37	Florid	Florid, furred, indented	No report	No report	Costive	
6	Female	22	Florid	Florid, thinly furred, tremulous	Giddiness	Pain, nausea	Costive	
7	Female	44	Florid	Anemic, broad, fissured	Headache	No report	Costive	
8	Male	53	Florid	Anemic, clean, fissured	Giddiness	Sinking	Relaxed	
9	Female	35	Florid	Anemic, tumid	Headache	Pain, irritability	Costive	
10	Female	32	Florid	Anemic, edges clean	No report	Pain, heat	Regular	
11	Female	44	Florid	Anemic, broad, fissured	Headache	No report	Costive	
12	Female	56	Florid	Anemic, tumid	No report	No report	Costive	Fugitive pains
13	Female	19	Florid	Anemic	No report	Anorexia	Relaxed	
14	Female	40	Florid	Anemic, clean, tremulous	Headache	Irritability	Costive	
15	Female	18	Florid	Anemic, clean, tumid, tremulous	Headache	No report	Regular	
16	Female	18	Florid	Anemic, tumid, tremulous	Throbbing	Anorexia	Regular	
17	Female	42	Florid	Anemic, furred	No report	Pain	No report	Fugitive pains, palpitation
18	Female	28	Florid	Anemic, tumid, furred	No report	No report	Costive	
19	Female	46	Florid	Anemic, indented, furred	No report	Pain, anorexia	Costive	Fugitive pains
20	Male	56	Florid	Anemic, sodden, furred	No report	Pain, heat	Regular	

PAPILLÆ FILIFORM FLORID.					SYMPTOMS ACCOMPANYING.			
No.	*Sex.*	*Age.*	*Papillæ.*	*Tongue's Aspect.*	*Head.*	*Stomach.*	*Bowels.*	*General Symptoms.*
21	Female	35	Florid	Anemic, furred	Headache	No report	Costive	Hemierania
22	Female	25	Florid	Anemic, furred, tremulous	Headache	Pain, heat, craving	Costive	
23	Female	36	Florid	Anemic, furred, tremulous	Headache	Pain, sinking	Costive	Legs ache
24	Male	23	Florid	Anemic, furred, tremulous	Headache	No report	Costive	Fugitive pains
25	Female	30	Florid	Furred	Drowsiness	Pain	Regular	Fugitive pains
26	Female	17	Florid	Furred	Throbbing	No report	Costive	
27	Male	32	Florid	Furred	No report	Heartburn, craving	No report	
28	Female	29	Florid	Furred, tumid	No report	Oppression	Regular	
29	Female	17	Florid	Furred	Throbbing	Anorexia	Costive	
30	Female	37	Florid	Furred	No report	Nausea, anorexia	Costive	Fugitive pains
31	Female	30	Florid	Furred	No report	No report	Costive	Fugitive pains
32	Female	25	Florid	Furred	No report	No report	Regular	
33	Female	42	Florid	Furred	Giddiness	Faintness	Costive	
34	Male	39	Florid	Furred	No report	No report	Costive	
35	Male	52	Florid	Furred	No report	Anorexia	Costive	Fugitive pains
36	Female	13	Florid	Furred	Pain, frontal	No report	Regular	
37	Female	17	Florid	Furred	Pain	Pain	No report	Fugitive pains
38	Male	30	Florid	Furred	No report	Pain after food	No report	Palpitation
39	Female	23	Florid	Furred	Pain	Pain	Regular	
40	Female	60	Florid	Furred	No report	Anorexia, fullness	No report	
41	Female	36	Florid	Furred	Pain	No report	Costive	
42	Female	20	Florid	Furred	No report	Fluttering and faintness	No report	
43	Female	30	Florid	Furred	No report	Pain, anorexia	Costive	

PAPILLÆ FILIFORM FLORID.					SYMPTOMS ACCOMPANYING.			
No.	*Sex.*	*Age.*	*Papillæ.*	*Tongue's Aspect.*	*Head.*	*Stomach.*	*Bowels.*	*General Symptoms.*
44	Female	30	Florid	Furred	No report	Pain after food	Regular	
45	Female	20	Florid	Furred	Pain	Anorexia	Costive	Fugitive pains
46	Female	18	Florid	Furred	Pain, occasional	Pain	Regular	
47	Female	60	Florid	Furred	No report	No report	Regular	Fugitive pains
48	Male	24	Florid	Furred, tremulous	Confusion	No report	Regular	
49	Female	17	Florid	Furred, tremulous	No report	Pain, faintness	Costive	
50	Female	30	Florid	Furred, tremulous, fissured	No report	Oppression, craving	Costive	
51	Female	48	Florid	Furred, tremulous	No report	Pain after food	Regular	
52	Female	22	Florid	Furred, tremulous	Pain	Nausea	Costive	Fugitive pains
53	Female	19	Florid	Furred, tremulous	Pain	No report	No report	
54	Female	22	Florid	Furred, tremulous	Pain	Pain	Costive	
55	Female	33	Florid	Tremulous	Pain	No report	Costive	
56	Female	31	Florid	Tremulous	No report	Flatulent	Costive	
57	Female	19	Florid	No report	Pain	Pain	Regular	
58	Female	61	Florid	No report	Pain	No report	Regular	
59	Female	40	Florid	No report	No report	No report	Costive	
60	Male	25	Florid	No report	Pain	Sinking	Regular	
61	Female	22	Florid	No report	Pain	Pain, oppression	No report	
62	Female	39	Florid	No report	Pain	Pain	Regular	
63	Female	21	Florid	No report	No report	Pain, vomiting	Costive	Fugitive pains
64	Female	27	Florid	No report	Pain	Pain	Costive	
65	Male	24	Florid	No report	No report	Pain	Costive	

NUMERICAL SUMMARY.

FILIFORM PAPILLÆ FLORID OR VASCULAR.

SIXTY-FIVE CASES, OF WHICH

THE TONGUE WAS

Florid and clean in	2
Florid and furred in	3
Florid, furred, and tremulous in	1
Florid and tremulous in	0
Anemic and clean in	7
Anemic, clean, and tremulous in	3
Anemic and furred in	5
Anemic, furred, and tremulous in	3
Furred in	23
Furred and tremulous in	7
Tremulous in	2
No report in	9

HEAD SYMPTOMS.

Headache in	35
Headache, with gastric pain in	23
Headache, with constipation in	7
Headache, gastric pain, and constipation in	12

STOMACH SYMPTOMS.

Gastric pain in	45
Gastric pain, with constipation	11
Gastric with fugitive pains	8
Gastric pain, without headache	20
No report of head symptoms	30
No report of gastric symptoms	20

BOWELS.

Constipation	36
Constipation, without head symptoms	17
Constipation, with fugitive pains	8
Regular	19
Irregular	0
Relaxed	2
No report	8

FUGITIVE PAINS.

Fugitive pains	13
Fugitive and gastric pains, and headache	5
Fugitive and gastric pains, and constipation	7
Fugitive pains, headache, constipation	4

With a *florid* and clean tongue, the filiform papillæ being vascular, there was nausea, or vomiting, or a gnawing sensation in the gastric region.

When the tongue was florid and furred, there was headache accompanying the painful or uneasy state of the stomach.

But, when in addition to a florid and furred state of the tongue, it was also tremulous, giddiness with nausea, and gastric pain was observed.

When the tongue was *anemic* and clean, the filiform papillæ being florid, there was giddiness, or headache, and a painful or irritable, state of the stomach.

When the tongue was anemic, clean, and tremulous, there was throbbing of the head, or headache, the stomach being slightly irritable with loss of appetite.

When the tongue was anemic and furred, pain or heat of the stomach was chiefly felt, with a slight tendency to hemicrania, or to fugitive pains.

When the tongue was anemic, furred, and tremulous, headache with pain, heat, or a sinking sensation in the gastric region were symptoms chiefly complained of.

When the tongue was *furred*, the papillæ being florid, headache occasionally was felt. The stomach appeared to be chiefly affected, as in sixteen cases of twenty-three, nausea, pain, fluttering, or anorexia were complained of, whereas the head was rarely affected, nor was the pain or giddiness urgent.

When the tongue was furred and tremulous, the head and stomach seemed equally painful.

A *tremulous* tongue, the filiform papillæ being florid, was unaccompanied with any well-marked symptoms.

In those cases in which the papillæ were florid, but in which the state of the tongue was not further reported, the symptoms of the head and stomach were alike observable.

The *head* sympathised more or less in thirty-five cases. Complicated with gastric symptoms, it was affected in twenty-three, or a third of the whole.

Headache with constipation was only remarked in seven, but with gastric pain and constipation in twelve individuals. The head symptoms were pain, giddiness, confusion, or a throbbing sensation.

Gastric pain, or irritation, was felt in forty-five instances, with constipation in eleven, and with fugitive pains in eight of the sixty-five cases. The symptoms were a sensation of faintness, nausea, and a gnawing feel: pain, heat, and heartburn; anorexia, or craving, with a fulness, oppression, and a fluttering.

Gastric irritation with headache had the like symptoms as the above, with the exception of the gnawing, fluttering, and heartburn. But there was observed an uneasy sensation, tightness, and sinking, which latter symptoms did not accompany uncomplicated gastric irritation.

Constipation occurred in thirty-six cases, without head symptoms in seventeen, and with fugitive pains in eight.

Fugitive pains were noticed in thirteen of the sixty-five cases. With headache in five, and with gastric pain and constipation in seven.

Although the bowels were stated to be costive in thirty-six cases, in twenty-three of which the tongue was furred, yet the constipation was not a prominent source of complaint; neither were the gastric or fugitive pains urgent.

CHAPTER II.

THE TUBEROSE PAPILLÆ BEING FLORID; THE ASPECTS OF THE TONGUE WITH THE ACCOMPANYING SYMPTOMS, AND INFERENCES.

TABLE OF CASES.

PAPILLÆ TUBEROSE FLORID.					SYMPTOMS ACCOMPANYING.			
No.	*Sex.*	*Age.*	*Papillæ.*	*Tongue's Aspect.*	*Head.*	*Stomach.*	*Bowels.*	*General Symptoms.*
1	Female	25	Florid	Florid	Headache	Flatulency	No report	Pain in legs
2	Female	8	Florid	Florid	No report	Pain, vomiting food	No report	
3	Female	60	Florid	Florid	No report	No report	Costive	Fugitive pains
4	Female	18	Florid	Florid and furred left half	Headache	No report	Regular	Fugitive pains
5	Female	31	Florid	Florid, furred	No report	Eructings	Costive	Aphtha occasionally
6	Female	22	Florid	Florid, furred	No report	Thirst	Costive	Cough
7	Female	19	Florid	Florid, furred	Headache	No report	Costive	
8	Female	60	Florid	Florid, furred	Confusion	No report	No report	Pain in right side
9	Female	54	Florid	Florid, furred	No report	Flatulency, heartburn	Relaxed	Pain in right side
10	Female	19	Florid	Florid, furred	Headache occipital	Pain	Costive	
11	Female	19	Florid	Florid, furred	Headache	Atony	Costive	
12	Female	19	Florid	Florid, furred	Headache	No report	Costive	
13	Female	18	Florid	Florid, furred	Headache	No report	Costive	
14	Female	25	Florid	Florid, furred	No report	Craving	Costive	Fugitive pains
15	Female	30	Florid	Florid, furred	No report	Anorexia	Costive	
16	Female	21	Florid	Florid, furred, tremulous	No report	Pain	Costive	
17	Female	27	Florid	Florid, tremulous	Headache	Pain, heartburn	Costive	
18	Female	20	Florid	Anemic, clean	No report	Sinking	Costive	
19	Female	24	Florid	Anemic, clean	Giddiness	No report	Relaxed	

PAPILLÆ TUBEROSE FLORID.					SYMPTOMS ACCOMPANYING.			
No.	*Sex.*	*Age.*	*Papillæ.*	*Tongue's Aspect.*	*Head.*	*Stomach.*	*Bowels.*	*General Symptoms.*
20	Female	19	Florid	Anemic	No report	Pain	Regular	
21	Female	12	Florid	Anemic	Headache	Pain, anorexia	Regular	
22	Female	43	Florid	Anemic, indented	No report	No report	Costive	Pain in arm, tingling
23	Female	26	Florid	Anemic, tremulous	No report	No report	Relaxed	Palpitation
24	Female	39	Florid	Anemic, tremulous	Headache, giddiness	Irritability	Costive	
25	Female	32	Florid	Anemic, tremulous	Headache	Nausea, sinking	Costive	
26	Female	20	Florid	Anemic, furred	No report	Pain	Costive	
27	Female	20	Florid	Anemic, furred	No report	Pain	Regular	Pain in side
28	Female	35	Florid	Anemic, furred	Headache, giddiness	Anorexia, sinking	Costive	Pain in right side
29	Female	31	Florid	Anemic, furred	Headache	Faint sensation	Regular	
30	Male	10	Florid	Anemic, furred	Headache	No report	No report	
31	Female	34	Florid	Furred	No report	Pain	Regular	
32	Female	26	Florid	Furred	No report	No report	Costive	
33	Female	24	Florid	Furred	Headache	Pain	Costive	
34	Female	27	Florid	Furred	No report	Pain	Regular	Dyspnœa
35	Female	48	Florid	Furred	No report	No report	Costive	Pain in face
36	Female	42	Florid	Furred, fissured	Headache	No report	No report	Fugitive pains
37	Female	38	Florid	Furred	Headache	Pain, nausea	Costive	Fugitive pains
38	Female	20	Florid	Furred	Headache	No report	Costive	
39	Female	46	Florid	Furred	Giddiness	No report	Irregular	Palpitations
40	Female	27	Florid	Furred	Giddiness	Distension	Costive	
41	Male	21	Florid	Furred	Headache	No report	No report	

PAPILLÆ TUBEROSE FLORID.					SYMPTOMS ACCOMPANYING.			
No.	*Sex.*	*Age.*	*Papillæ.*	*Tongue's Aspect.*	*Head.*	*Stomach.*	*Bowels.*	*General Symptoms.*
42	Female	17	Florid	Furred	Headache	No report	Costive	
43	Female	21	Florid	Furred	No report	Pain	Costive	Palpitations
44	Female	17	Florid	Furred	No report	Nausea	No report	Facial pains
45	Male	11	Florid	Furred	Headache, throbbing	Nausea	Regular	Palpitations
46	Female	15	Florid	Furred	Headache	Pain	Costive	
47	Female	47	Florid	Furred	No report	Distension	Costive	Fugitive pains
48	Male	4	Florid	Furred	No report	No report	No report	Tumid body
49	Female	34	Florid	Furred	No report	No report	Regular	Dyspnœa
50	Female	32	Florid	Furred	Headache	Pain, flatulency	Costive	Fugitive pains
51	Female	20	Florid	Furred	Headache	No report	Costive	Fugitive pains
52	Female	26	Florid	Furred	Confusion	Throbbing	Irregular	Fugitive pains
53	Female	21	Florid	Furred	Headache	Craving	Costive	
54	Female	23	Florid	Furred	Headache	No report	Costive	
55	Male	11	Florid	Furred	Headache	Pain	No report	
56	Female	51	Florid	Furred, tremulous	Headache	Sinking	Costive	
57	Female	8	Florid	Furred, tremulous	No report	Pain	Costive	
58	Female	51	Florid	Furred, tremulous	No report	Pain	Costive	
59	Female	22	Florid	Furred, tremulous	No report	No report	No report	
60	Female	22	Florid	Furred, tremulous	Headache	Sinking after food	Regular	Fugitive pains
61	Female	30	Florid	Furred	Headache, giddiness	Pain, nausea, fulness	Costive	Fugitive pains
62	Female	36	Florid	Tremulous	Headache	Thirst	Costive	
63	Female	18	Florid	Tremulous	No report	No report	Costive	

PAPILLÆ TUBEROSE FLORID.					SYMPTOMS ACCOMPANYING.			
No.	*Sex.*	*Age.*	*Papillæ.*	*Tongue's Aspect.*	*Head.*	*Stomach.*	*Bowels.*	*General Symptoms.*
64	Female	17	Florid	Tremulous	Headache	Distension, sinking	No report	
65	Female	18	Florid	No report	Headache	Pain	Costive	
66	Female	27	Florid	No report	No report	Faint feeling	Costive	Lumbar pain
67	Female	27	Florid	No report	No report	Pain	Costive	
68	Female	38	Florid	No report	No report	Pain	Costive	Fugitive pains
69	Female	26	Florid	No report	Headache	Pain	No report	
70	Female	21	Florid	No report	No report	Pain	Regular	
71	Female	27	Florid	No report	No report	Feeling of faintness	Costive	Fugitive pains

NUMERICAL SUMMARY.

TUBEROSE PAPILLÆ FLORID OR VASCULAR,

SEVENTY-ONE CASES, OF WHICH

THE TONGUE WAS

Florid and clean in	3
Florid and furred in	12
Florid, furred, and tremulous in	1
Florid and tremulous in	1
Anemic and clean in	5
Anemic, clean, and tremulous in	3
Anemic and furred in	5
Anemic, furred, and tremulous in	0
Furred in	26
Furred and tremulous in	5
Tremulous in	3
No report in	7

HEAD SYMPTOMS.

Headache in	39
Headache, with gastric pains in	25
Headache, with constipation in	23
Headache, gastric pain, constipation in	16

GASTRIC SYMPTOMS.

Gastric pain in	48
Gastric pain, constipation in	31
Gastric with fugitive pains	16
Gastric pain, without headache	23
No report of head symptoms	32
No report of gastric symptoms	23

BOWELS.

Constipation	43
Constipation, without head symptoms	20
Constipation, with fugitive pains	14
Regular	11
Irregular	2
Relaxed	3
No report	12

FUGITIVE PAINS.

Fugitive pains	22
Fugitive and gastric pains and headache	6
Fugitive and gastric pains and constipation	9
Fugitive pains, headache, constipation	5

With a *florid* and clean tongue, the tuberose papillæ being vascular, there was pain, flatulency, and vomiting.

When the tongue was florid and furred, thirst, flatulency, and heartburn, or pain, anorexia, and craving.

When the tongue was *anemic* and clean, there was pain, anorexia, and a sinking sensation.

When the tongue was anemic, clean, and tremulous, nausea, sinking, and irritability of the stomach was complained of. But when the tongue was anemic and furred, pain, anorexia, and a sinking, or sensation of faintness, was experienced.

With a *furred* state of the tongue, in twenty-six cases, nausea, pain, fulness, distension, or flatulency occurred, with occasionally a craving sensation.

When the tongue was furred and tremulous, pain and a sinking feel after food was felt.

The tongue being *tremulous* was attended with thirst and a sinking sensation after eating, or distension.

In those cases in which the tuberose papillæ were florid, but in which the state of the tongue was not further reported, gastric pain was rarely felt.

The *head* was complained of in thirty-nine cases. Complicated with gastric irritation in twenty-five of seventy-one, or more than one third of the whole.

Headache with constipation was remarked in twenty-three individuals, with gastric pain and constipation in sixteen. The head symptoms were pain, confusion, or giddiness.

Gastric irritation was observed in forty-eight cases, with constipation in thirty-one, with fugitive pains in sixteen, but without headache in twenty-three. The symptoms were a sensation of faintness, nausea, or vomiting: thirst, flatulency, and heartburn; anorexia, craving, also a throbbing or sinking at the epigastrium.

Gastric irritability, complicated with headache, had the like symptoms, with the addition of extreme irritability.

Constipation occurred in forty-three cases, without head symptoms in twenty, and with fugitive pains in fourteen. In twenty-six of the forty-three instances the tongue was furred.

Fugitive pains were noticed, in twenty-two cases, with gastric pain and headache; but in six with gastric uneasiness, and constipation in nine.

Although, in twenty-six cases, the tongue was furred when the bowels were confined, yet neither was constipation or fugitive pains urgent symptoms.

CHAPTER III.

THE TUBEROSE AND FILIFORM PAPILLÆ BEING FLORID; ASPECTS OF THE TONGUE WITH THE ACCOMPANYING SYMPTOMS AND INFERENCES.

TABLE OF CASES.

TUBEROSE AND FILIFORM PAPILLÆ FLORID.					SYMPTOMS ACCOMPANYING.			
No.	*Sex.*	*Age.*	*Papillæ.*	*Tongue's Aspect.*	*Head.*	*Stomach.*	*Bowels.*	*General Symptoms.*
1	Female	21	Florid	Florid, clean	No report	Sinking	Variable	
2	Female	28	Florid	Florid	Headache	No report	Costive	Hysteria
3	Female	16	Florid	Florid, clean	No report	No report	Costive	Fugitive pains
4	Female	23	Florid	Florid	Headache	Pain, craving	Costive	
5	Male	26	Florid	Florid	No report	Pain, flatulency	Regular	
6	Female	17	Florid	Florid, tumid	No report	No report	Costive	
7	Female	17	Florid	Florid uniformly	No report	Nausea	Relaxed	Lumbar pain
8	Female	19	Florid	Florid, furred	Headache	Pain, sinking	Regular	
9	Female	30	Florid	Florid, furred	Headache	No report	Costive	Pain in shoulder
10	Male	22	Florid	Florid, furred	No report	Pain	Regular	Pain in shoulder
11	Female	39	Florid	Florid, furred	No report	Pain	No report	Tremor
12	Female	23	Florid	Florid, furred	Headache	Painful distension	Regular	Fugitive pains
13	Male	23	Florid	Florid, furred	No report	Pain, nausea, sinking	Costive	
14	Female	19	Florid	Florid, furred	No report	No report	Costive	Fugitive pains
15	Female	25	Florid	Florid, furred	No report	Pain	Costive	
16	Female	33	Florid	Florid, furred, tremulous	No report	Pain	Costive	Fugitive pains
17	Female	21	Florid	Florid, tremulous	Giddiness	Gnawing, aching, anorexia	Costive	
18	Female	43	Florid	Florid, tremulous, sulcated	Giddiness	Craving, flatulent	Regular	
19	Male	20	Florid	Anemic	Headache	No report	Costive	
20	Female	20	Florid	Anemic	Headache	Irritability	No report	

TUBEROSE AND FILIFORM PAPILLÆ FLORID.

No.	*Sex.*	*Age.*	*Papillæ.*	*Tongue's Aspect.*	ACCOMPANYING SYMPTOMS.			
					Head.	*Stomach.*	*Bowels.*	*General Symptoms.*
21	Female	21	Florid	Anemic	Headache, giddiness	Craving	Costive	
22	Male	24	Florid	Anemic	Headache	Sinking	Relaxed	Pallor of lips
23	Male	18	Florid	Anemic	Headache	Nausea	Costive	
24	Female	30	Florid	Anemic, clean, tremulous	No report	Pain	Regular	
25	Female	48	Florid	Anemic, clean, tremulous	Throbbing	No report	Costive	Neuralgia of head
26	Female	24	Florid	Anemic, clean, tremulous	Giddiness	Pain	Costive	
27	Female	20	Florid	Anemic, furred	Headache	Pain after food	Costive	Fugitive pains
28	Female	28	Florid	Anemic, furred	No report	Pain, nausea	Costive	
29	Female	32	Florid	Anemic, furred	No report	Pain, sinking	No report	
30	Male	35	Florid	Anemic, furred, tremulous	No report	Pain	Irregular	
31	Male	29	Florid	Anemic, furred, tremulous	No report	Craving	Regular	Lumbar pains
32	Male	28	Florid	Furred	No report	No report	Relaxed	Pain left side
33	Female	31	Florid	Furred, fissured	No report	Pain oppressive	Costive	
34	Female	22	Florid	Furred	No report	No report	Costive	Fugitive pains
35	Female	17	Florid	Furred	Headache	Gastric cough	Costive	
36	Female	35	Florid	Furred	No report	Pain, increased sensibility	Costive	
37	Female	54	Florid	Furred, fissured	No report	Pain, oppression	Regular	
38	Female	33	Florid	Furred	Headache	Pain	Costive	
39	Female	25	Florid	Furred	Headache	Nausea	No report	Fugitive pains
40	Female	19	Florid	Furred	Headache	Nausea, increased sensibility	Costive	
41	Female	8	Florid	Furred	Headache	Pain	No report	
42	Female	24	Florid	Furred	No report	Pain	Costive	Pain in shoulder

TUBEROSE AND FILIFORM PAPILLÆ FLORID.					ACCOMPANYING SYMPTOMS.			
No.	*Sex.*	*Age.*	*Papillæ.*	*Tongue's Aspect.*	*Head.*	*Stomach.*	*Bowels.*	*General Symptoms.*
43	Female	8	Florid	Furred	Headache	Pain	No report	
44	Female	8	Florid	Furred	No report	Pain	No report	
45	Female	8	Florid	Furred	Headache	No report	Costive	
46	Female	40	Florid	Furred	No report	Uneasiness, sinking	Regular	
47	Male	19	Florid	Furred	Headache	Pain	Regular	
48	Female	25	Florid	Furred	No report	No report	No report	Fugitive pains
49	Female	38	Florid	Furred	Headache, throbbing	No report	Costive	Palpitation, hysteria
50	Male	24	Florid	Furred	No report	Pain	Regular	
51	Female	31	Florid	Furred	No report	Pain, anorexia	Costive	Fugitive pains
52	Female	23	Florid	Furred	No report	Pain after food	Regular	
53	Female	38	Florid	Furred	Headache	Pain, distension	Costive	
54	Female	32	Florid	Furred	No report	Pain, sinking	No report	
55	Female	18	Florid	Furred	No report	Sinking, anorexia	Costive	
56	Female	23	Florid	Furred	Headache	Anorexia	Costive	Pain in right side
57	Female	18	Florid	Furred	No report	Pain	Costive	
58	Female	32	Florid	Furred	No report	Pain, craving	Costive	
59	Female	53	Florid	Furred	Headache	Faint feel or throbbing	Costive	
60	Female	20	Florid	Furred	No report	Pain, acidity	Costive	
61	Female	22	Florid	Furred	No report	Pain	No report	
62	Female	16	Florid	Furred	Headache	Pain	Costive	Pain in legs
63	Male	42	Florid	Furred	Giddiness	Pain	Costive	
64	Female	59	Florid	Furred	Headache, giddiness	Sinking, anorexia	Regular	Fugitive pains

TUBEROSE AND FILIFORM PAPILLÆ FLORID.

No.	*Sex.*	*Age.*	*Papillæ.*	*Tongue's Aspect.*	ACCOMPANYING SYMPTOMS.			
					Head.	*Stomach.*	*Bowels.*	*General Symptoms.*
65	Female	8	Florid	Furred	Headache	Pain	No report	
66	Female	7	Florid	Furred	No report	Anorexia	Costive	
67	Male	18	Florid	Furred	No report	Pain	Costive	
68	Female	13	Florid	Furred, tremulous, fissured	No report	No report	No report	Pain in left side
69	Female	26	Florid	Furred, fissured, tremulous	No report	Pain	Costive	Pain in left arm
70	Female	21	Florid	Furred, tremulous	Headache	Flatulent	Costive	
71	Female	29	Florid	Furred, tremulous	Headache	Pain	Costive	
72	Female	51	Florid	Furred, tremulous	No report	Pain	Costive	
73	Female	13	Florid	Furred, fissured, tremulous	Headache	Pain	Costive	
74	Female	16	Florid	Furred, tremulous	Headache	No report	Regular	Pain in hip
75	Female	17	Florid	Furred, tremulous	No report	Pain	Costive	
76	Female	44	Florid	Furred, tremulous	Headache	Anorexia	Costive	Fugitive pains
77	Female	19	Florid	Furred, tremulous	Headache	Distension after food	Costive	Fugitive pains
78	Male	28	Florid	Furred, tremulous	No report	No report	Costive	
79	Male	39	Florid	Furred, tremulous	Headache	Craving	No report	
80	Female	51	Florid	Tremulous, fissured	No report	Anorexia	No report	Fugitive pains
81	Male	11	Florid	Tremulous	Headache	Pain, nausea	No report	
82	Female	18	Florid	Tremulous	No report	Anorexia, sinking	Costive	
83	Female	28	Florid	No report	No report	Pain	Costive	Palpitation
84	Female	23	Florid	No report	Headache	Nausea	Regular	Palpitation
85	Female	14	Florid	No report	Headache	Pain	Costive	
86	Female	15	Florid	No report	Headache	Craving	Regular	Fugitive pains
87	Female	20	Florid	No report	No report	Pain, anorexia	Costive	
88	Female	14	Florid	No report	No report	Pain, faintness	No report	

NUMERICAL SUMMARY.

TUBEROSE AND FILIFORM PAPILLÆ FLORID.

EIGHTY-EIGHT CASES, OF WHICH

THE TONGUE WAS

Florid and clean in	7
Florid and furred in	8
Florid, furred, and tremulous in	1
Florid and tremulous in	2
Anemic and clean in	5
Anemic, clean, and tremulous in	3
Anemic and furred in	3
Anemic, furred, and tremulous in	2
Furred in	36
Furred and tremulous in	12
Tremulous in	3
No report in	6

HEAD SYMPTOMS.

Headache in	42
Headache, with gastric pain in	35
Headache, with constipation in	26
Headache, gastric pain, constipation in	20

GASTRIC SYMPTOMS.

Gastric pain in	73
Gastric pain, constipation in	42
Gastric with fugitive pains	17
Gastric pain, without headache	38
No report of head symptoms	46
No report of gastric symptoms	15

BOWELS.

Constipation	51
Constipation, without head symptoms	25
Constipation, with fugitive pains	14
Regular	16
Irregular	2
Relaxed	3
No report	16

FUGITIVE PAINS.

Fugitive pains	26
Fugitive and gastric pains, and headache	9
Fugitive and gastric pains, and constipation	9
Fugitive pains, headache, and constipation	7

With a *florid* and clean tongue, the filiform and tuberose papillæ being florid or vascular, there was pain, sinking, nausea, and flatulency of the stomach with a craving sensation; the head being but slightly affected.

When the tongue was florid and furred, the pain in the stomach was more constantly felt accompanied with nausea, sinking, and with flatulent distension.

With a florid, furred, and tremulous appearance of the tongue, gastric pain was the only observable symptom.

When the tongue was florid and tremulous, giddiness, with a gnawing, aching, craving, or flatulent distension of the stomach was complained of.

An *anemic* and clean state of the tongue was attended invariably with headache or giddiness, and occasionally with slight nausea, sinking, or a craving sensation of the stomach.

When anemic, clean, and tremulous, gastric pain with slight head symptoms, as giddiness or a throbbing feel occurred. The tongue being anemic and furred, was attended solely with gastric irritation, as pain, nausea, or sinking.

But when, besides being anemic and furred, the tongue was also tremulous, gastric pain or craving presented themselves.

When the tongue was *furred*, the papillæ being florid in thirty-one of thirty-nine cases, gastric pain, nausea, or uneasiness were present. And in sixteen only did the head sympathise with this gastric irritability.

The tongue being furred and tremulous, the head and stomach were equally and coincidently affected.

A *tremulous* tongue was attended with gastric pain, nausea, and anorexia, or a sinking sensation.

In those cases in which the papillæ were florid, but in which the appearance of the tongue was not further reported, in every instance the stomach was the source of pain or irritation.

The *head* sympathised or was painful in forty-two cases. Complicated with gastric pain in thirty-five. With constipation it was noticed in twenty-six; but with gastric pain and constipation in twenty.

The head symptoms were pain, headache, or a throbbing sensation.

Gastric pain or irritation was felt in seventy-three individuals: with constipation in forty-two; with fugitive pains in but seventeen. But gastric pain without headache was complained of in thirty-eight of the eighty-eight cases.

The gastric symptoms were pain, anorexia, acidity, and uneasiness; oppression, flatulency, and faintness, nausea, sinking, craving, and increased sensibility.

It appears that only in fifteen cases the stomach was not the seat of uneasiness; whereas, in forty-six of the eighty-eight, the head was unaffected, showing a considerable preponderance of gastric irritation.

Constipation occurred with fifty-one: of these thirty-six showed a furred state of the tongue. The constipation was not a prominent symptom.

The gastric symptoms were acute and constant; whereas the head was less frequently affected, nor was the headache urgent.

Fugitive pains were remarked in twenty-six cases, yet they were not accompanied with much urgency.

CHAPTER IV.

THE TUBEROSE AND FILIFORM PAPILLÆ BEING ANEMIC; ASPECTS OF THE TONGUE, WITH THE ACCOMPANYING SYMPTOMS AND INFERENCES.

TABLE OF CASES.

FILIFORM AND TUBEROSE PAPILLÆ ANEMIC AND PROMINENT.					SYMPTOMS ACCOMPANYING.			
No.	*Sex.*	*Age.*	*Papillæ.*	*Tongue's Aspect.*	*Head.*	*Stomach.*	*Bowels.*	*General Symptoms.*
1	Female	20	Anemic	Florid, clean	Headache	Pain	Costive	
2	Female	35	Anemic	Florid	No report	Pain	Costive	
3	Female	18	Anemic	Florid	Headache	Pain	No report	
4	Female	41	Anemic	Florid	No report	Craving, faintness	Costive	
5	Female	15	Anemic	Florid, furred	No report	No report	Regular	
6	Female	21	Anemic	Florid, furred	No report	Pain after food	Costive	
7	Female	32	Anemic	Anemic, clean	Giddiness	Nausea, aching, anorexia	Costive	Languor
8	Female	20	Anemic	Anemic	No report	Pain	Costive	Languor
9	Female	20	Anemic	Anemic, moist, clean	Headache	Pain, nausea	Costive	
10	Female	19	Anemic	Anemic, clean	No report	Irritability	Regular	
11	Female	30	Anemic	Anemic, fissured, clean	No report	Sensation of faintness	Regular	
12	Female	20	Anemic	Anemic	No report	No report	Costive	
13	Female	22	Anemic	Anemic, smooth	No report	Pain, nausea	No report	
14	Female	36	Anemic	Anemic	Headache	Thirst	Regular	
15	Female	25	Anemic	Anemic	Headache	Pain, sinking	Costive	Palpitation

FILIFORM AND TUBEROSE PAPILLÆ ANEMIC AND PROMINENT.					SYMPTOMS ACCOMPANYING.			
No.	*Sex.*	*Age.*	*Papillæ.*	*Tongue's Aspect.*	*Head.*	*Stomach.*	*Bowels.*	*General Symptoms.*
16	Female	20	Anemic	Anemic	No report	No report	No report	Debility
17	Female	20	Anemic	Anemic	Headache	No report	Costive	Fugitive pains
18	Female	34	Anemic	Anemic, clean	Giddiness	Aching	Costive	
19	Female	17	Anemic	Anemic	Pain	No report	No report	
20	Female	49	Anemic	Anemic	Giddiness	Nausea, fluttering, tightness after food	No report	
21	Female	35	Anemic	Anemic, clean	Giddiness	Sinking, anorexia	Irregular	
22	Female	22	Anemic	Anemic, clean, tremulous	Pain	No report	Regular	Fugitive pains
23	Female	23	Anemic	Furred	Pain	Nausea	Costive	
24	Female	29	Anemic	Furred	Headache	Sinking	Regular	Pallor
25	Female	21	Anemic	Furred, tremulous	Headache	Faintness	Irregular	
26	Female	28	Anemic	Furred, tremulous	No report	No report	No report	Languor
27	Female	19	Anemic	No report	No report	Pain	Costive	
28	Female	16	Anemic	No report	Headache	No report	Costive	

NUMERICAL SUMMARY.

FILIFORM AND TUBEROSE PAPILLÆ PROMINENT AND ANEMIC.

TWENTY-EIGHT CASES, OF WHICH

THE TONGUE WAS

Florid and clean in	4
Florid and furred in	2
Florid, furred, and tremulous in	0
Florid and tremulous in	0
Anemic and clean in	15
Anemic, clean, and tremulous in	1
Anemic and furred in	0
Anemic, furred, and tremulous	0
Furred in	2
Furred and tremulous in	2
Tremulous in	0
No report in	2

HEAD SYMPTOMS.

Headache in	16
Headache, with gastric pain in	12
Headache, with constipation in	8
Headache, gastric pain and constipation in	6

GASTRIC SYMPTOMS.

Gastric pain in	20
Gastric pain, with constipation	11
Gastric, with fugitive pains in	0
Gastric pain, without headache in	8
No report of head symptoms	12
No report of gastric symptoms	8

BOWELS.

Constipation	14
Constipation, without head symptoms	6
Constipation, with fugitive pains	1
Regular	6
Irregular	2
Relaxed	0
No report	6

FUGITIVE PAINS.

Fugitive pains	2
Fugitive and gastric pain and headache	0
Fugitive and gastric pain and constipation	0
Fugitive pains, headache, constipation	1

The tongue being *florid* and clean, the filiform and tuberose papillæ being prominent and anemic, gastric pain, craving, or a sensation of faintness was remarked. The head being occasionally affected.

When the tongue was *anemic* and clean, of fifteen cases the stomach was painful or irritable in eleven. The head also sympathised or was painful, but in less degree of intensity in nine instances.

Headache was felt in sixteen cases, complicated with gastric irritation in twelve, or nearly one half of the whole.

Headache, with constipation, was remarked in eight; with gastric pain and constipation in six individuals. The head symptoms were pain and giddiness.

Gastric pain or irritation occurred in twenty instances, with constipation in eleven; but gastric symptoms do not appear to have been accompanied with fugitive pains. Without headache it was noticed in eight instances. The gastric symptoms were pain, faintness, craving, and nausea.

Constipation was observed in fourteen of twenty-eight cases. Without head symptoms in six; and with fugitive pains in but one.

The gastric symptoms preponderated in intensity over the pain, or giddiness, of the head. The stomach being implicated in twenty of twenty-eight cases.

Fugitive pains were observed in only two of twenty-eight individuals.

CHAPTER V.

THE PYRAMIDAL PAPILLÆ BEING PROMINENT; ASPECTS OF THE TONGUE, WITH THE ACCOMPANYING SYMPTOMS AND INFERENCES.

TABLE OF CASES.

PYRAMIDAL PAPILLÆ PROMINENT.					SYMPTOMS ACCOMPANYING.			
No.	*Sex.*	*Age*	*Papillæ.*	*Tongue's Aspect.*	*Head.*	*Stomach.*	*Bowels.*	*General Symptoms.*
1	Female	23	Prominent	Florid or dull red	Headache	Pain	Regular	
2	Male	28	Prominent	Florid	No report	No report	No report	Fugitive pains
3	Female	61	Prominent	Florid	Confusion	Flatus, anorexia	Costive	Fugitive pains
4	Female	27	Prominent	Florid slightly	Pain	Acidity	Costive	Numb sensation
5	Female	20	Prominent	Florid, furred	No report	Pain, anorexia	Costive	Numb sensation
6	Female	28	Prominent	Florid, furred	No report	No report	Costive	Fugitive pains
7	Female	7	Prominent	Florid, furred	No report	No report	No report	Nervous feeling
8	Female	36	Prominent	Florid, tremulous	No report	Pain, sinking	Costive	Fugitive pains
9	Female	38	Prominent	Florid, tremulous, fissured	Headache, giddiness	Pain after food	Costive	Numbness of arms, &c.
10	Female	24	Prominent	Anemic, clean	No report	Pain, sinking, anorexia	Costive	Fugitive pains
11	Female	20	Prominent	Anemic	No report	Pain	Costive	
12	Female	45	Prominent	Anemic, clean	Headache	Nausea	Costive	Pain in right side
13	Female	55	Prominent	Anemic, clean	No report	No report	Diarrhœa	
14	Female	22	Prominent	Anemic	Giddiness	Pain after food	No report	Fugitive pains
15	Female	43	Prominent	Anemic, tremulous	No report	Expectoration frothy	Regular	Fugitive pains
16	Female	17	Prominent	Anemic, furred	No report	No report	Costive	Palpitation
17	Female	46	Prominent	Anemic, furred	No report	No report	Regular	Fugitive pains
18	Female	49	Prominent	Anemic, furred	No report	Sinking sensation	Costive	
19	Female	19	Prominent	Anemic, furred	No report	No report	No report	Fugitive pains
20	Female	41	Prominent	Anemic, furred	Pain	Pain	Costive	Fugitive pains
21	Female	25	Prominent	Anemic, furred	Headache	Sinking sensation	Costive	Fugitive pains
22	Female	41	Prominent	Anemic, furred	Headache	Pain	No report	

PYRAMIDAL PAPILLÆ PROMINENT.					SYMPTOMS ACCOMPANYING.			
No.	*Sex.*	*Age.*	*Papillæ.*	*Tongue's Aspect.*	*Head.*	*Stomach.*	*Bowels.*	*General Symptoms.*
23	Female	24	Prominent	Anemic, furred	Headache	Pain, nausea	No report	
24	Female	61	Prominent	Furred	No report	Gnawing sensation	Costive	Palpitation
25	Female	23	Prominent	Furred	Headache	No report	Costive	Hysteria
26	Female	22	Prominent	Furred	No report	No report	Variable	Fugitive pains
27	Female	63	Prominent	Furred	No report	Fulness after food	Costive	Rigors
28	Male	24	Prominent	Furred	No report	Distension	Costive	Hepatic pain
29	Female	34	Prominent	Furred	No report	Pain	Costive	Tremors
30	Female	31	Prominent	Furred	No report	Nausea	Relaxed	Fugitive pains
31	Male	18	Prominent	Furred	Headache	No report	Costive	Fugitive pains
32	Female	50	Prominent	Furred	Headache	Nausea	Regular	Fugitive pains
33	Female	22	Prominent	Furred	No report	No report	Regular	Fugitive pains
34	Male	47	Prominent	Furred	No report	Pain	No report	
35	Male	17	Prominent	Furred	No report	No report	Costive	Fugitive pains
36	Female	55	Prominent	Furred	Headache	Nausea	No report	
37	Female	41	Prominent	Furred	Headache	Craving	Regular	
38	Female	35	Prominent	Furred, tremulous	Confusion	Heat	Costive	Fugitive pains
39	Male	45	Prominent	Furred, tremulous	No report	Craving	Regular	
40	Female	43	Prominent	Tremulous	Headache	Pain, sinking	Costive	
41	Male	22	Prominent	Tremulous	No report	Craving	Relaxed	Pain in abdomen
42	Female	26	Prominent	No report	Pain	Pain after food	Costive	
43	Female	25	Prominent	No report	No report	Pain, anorexia	Regular	
44	Female	42	Prominent	No report	Headache	Sinking	No report	
45	Female	49	Prominent	No report	No report	No report	No report	Numbness
46	Female	55	Prominent	No report	No report	No report	Diarrhœa	
47	Female	23	Prominent	No report	No report	No report	Regular	Fugitive pains
48	Female	23	Prominent	No report	Throbbing	Distension	Irregular	

NUMERICAL SUMMARY.

PYRAMIDAL PAPILLÆ PROMINENT.

FORTY-EIGHT CASES, OF WHICH

THE TONGUE WAS

Florid and clean in	4
Florid and furred in	3
Florid, furred, and tremulous in	0
Florid and tremulous in	2
Anemic and clean in	5
Anemic, clean, and tremulous in	1
Anemic and furred in	8
Anemic, furred, and tremulous in	0
Furred in	14
Furred and tremulous in	2
Tremulous in	2
No report in	7

HEAD SYMPTOMS.

Headache in	20
Headache, with gastric pain in	18
Headache, with constipation in	11
Headache, gastric pain, and constipation	9

GASTRIC SYMPTOMS.

Gastric pain in	33
Gastric pain, with constipation in	18
Gastric, with fugitive pains in	16
Gastric pain, without headache in	15
No report of head symptoms	28
No report of gastric symptoms	15

BOWELS.

Constipation	23
Constipation, without head symptoms	12
Constipation, with fugitive pains	14
Regular	9
Irregular	2
Relaxed	4
No report	10

FUGITIVE PAINS.

Fugitive pains	22
Fugitive and gastric pains, and headache	9
Fugitive and gastric pains, and constipation	11
Fugitive pains, headache, constipation	8

With a *florid* and clean tongue, the pyramidal papillæ being prominent, there was headache, or confusion; and gastric pain, acidity, or flatulency.

When florid and furred, the stomach was alone affected.

The tongue being florid and tremulous, was attended with gastric pain, and sinking, also with headache and giddiness.

When the tongue was *anemic* and clean, the stomach was invariably complained of. The tongue being anemic and furred, the stomach was chiefly affected, and accompanied occasionally with headache.

A *furred* state of the tongue was attended with gastric pain, heat, nausea, craving, and distension, the head occasionally sympathising.

When furred and tremulous, gastric heat and craving, with slight confusion of the head, was noticed.

The *head* sympathised more or less in twenty cases, complicated with gastric irritation in eighteen.

Headache with constipation was remarked in eleven; with gastric pain and constipation in nine individuals. The head symptoms were, headache, confusion, giddiness.

The *stomach* was complained of in thirty-three of forty-eight cases. With constipation in eighteen, and with fugitive pains in sixteen. Without headache, gastric irritation was present in fifteen.

Gastric symptoms were pain, gnawing, anorexia, sinking, or a craving and distension, with heat and acidity.

Although *constipation* was stated to exist in twenty-three cases, yet it was not a prominent cause of complaint.

Fugitive pains were present in twenty-two instances, and invariably coinciding with gastric irritability.

The papillæ conicæ or pyramidal, like the filiform and tuberose papillæ, become erect and assume a rough aspect; but they differ from these papillæ in not presenting a vascular or injected appearance.

CHAPTER VI.

THE DIFFERENT APPEARANCES OF THE TONGUE, THE PAPILLÆ BEING FLORID OR ANEMIC; WITH THE ACCOMPANYING SYMPTOMS. GENERAL SUMMARY OF THE SAME.

APPEARANCES OF THE TONGUE WITH A FLORID, OR ANEMIC, OR A PROMINENT STATE OF THE PAPILLÆ. THE SYMPTOMS OF THE HEAD, STOMACH, BOWELS, AND FUGITIVE PAINS ACCOMPANYING THEM.

Tongue's Appearance.	*Head Symptoms.*	*Stomach Symptoms.*	*Bowels.*	*Fugitive Pains.*
TONGUE FLORID.				
—	—	—	—	—
TONGUE FLORID AND CLEAN.				
Filiform papillæ florid		Nausea, vomiting, gnawing		
Tuberose papillæ florid		Pain, flatulency, vomiting		
Filiform and tuberose papillæ florid	Headache slight	Pain, sinking, nausea, craving		
Filiform and tuberose papillæ anemic	Headache occasional	Pain, craving, faintness	Constipation slight	Fugitive pains in two cases
Pyramidal papillæ prominent	Headache, confusion	Pain, acidity, flatulency	Constipation slight	Fugitive pains in half cases
—	—	—	—	—
TONGUE FLORID AND FURRED.				
Filiform papillæ florid	Headache	Nausea, vomiting, gnawing	Constipation slight	Fugitive pains slight
Tuberose papillæ florid		Thirst, flatulency, pain, heartburn, anorexia or craving		
Filiform and tuberose papillæ florid		Pain, nausea, flatulency, sinking		
Filiform and tuberose papillæ anemic				
Pyramidal papillæ prominent		Pain		Fugitive pains

Tongue's Appearance.	*Head Symptoms.*	*Stomach Symptoms.*	*Bowels.*	*Fugitive Pains.*
TONGUE FLORID, FURRED, TREMULOUS.				
Filiform papillæ florid	Giddiness	Nausea, pain		
Tuberose papillæ florid				
Filiform and tuberose papillæ florid		Pain		
Filiform and tuberose papillæ anemic				
Pyramidal papillæ prominent				Fugitive pains
—	—	—	—	—
TONGUE FLORID AND TREMULOUS.				
Filiform papillæ florid				
Tuberose papillæ florid				
Filiform and tuberose papillæ florid	Giddiness	Gnawing, aching, craving, distension		
Filiform and tuberose papillæ anemic				
Pyramidal papillæ prominent	Headache, giddiness	Pain, sinking		Fugitive pains
—	—	—	—	—
TONGUE ANEMIC.				
—	—	—	—	—
TONGUE ANEMIC AND CLEAN.				
Filiform papillæ florid	Giddiness, headache	Pain, irritability		
Tuberose papillæ florid		Pain, anorexia, sinking		
Filiform and tuberose papillæ florid	Headache, giddiness	Nausea, sinking, craving occasionally		
Filiform and tuberose papillæ anemic	Headache slight, or giddiness	Pain, irritability		
Pyramidal papillæ prominent		Pain or irritability		Fugitive pains

Tongue's Appearance.	*Head Symptoms.*	*Stomach Symptoms.*	*Bowels.*	*Fugitive Pains.*
TONGUE ANEMIC, CLEAN, TREMULOUS.				
Filiform papillæ florid	Throbbing, headache	Irritability, anorexia		
Tuberose papillæ florid		Nausea, sinking, irritability		
Filiform and tuberose papillæ florid	Giddiness, throbbing	Pain, faintness, nausea, craving		
Filiform and tuberose papillæ anemic				
Pyramidal papillæ prominent				
—	—	—	—	—
TONGUE ANEMIC AND FURRED.				
Filiform papillæ florid	Hemicrania	Pain, heat		Fugitive pains slight
Tuberose papillæ florid		Pain, anorexia, sinking, faintness		
Filiform and tuberose papillæ florid		Pain, nausea, sinking		
Filiform and tuberose papillæ anemic				
Pyramidal papillæ prominent	Headache occasional	Pain		Fugitive pains
—	—	—	—	—
TONGUE ANEMIC, FURRED, TREMULOUS.				
Filiform papillæ florid	Headache	Pain, heat, sinking		
Tuberose papillæ florid				
Filiform and tuberose papillæ florid		Pain, craving		
Filiform and tuberose papillæ anemic				
Pyramidal papillæ prominent				

Tongue's Appearance.	*Head Symptoms.*	*Stomach Symptoms.*	*Bowels.*	*Fugitive Pains.*
TONGUE FURRED.				
Filiform papillæ florid	Headache occasional and slight	Nausea, pain, fluttering, anorexia	Constipation	
Tuberose papillæ florid		Nausea, pain, distension, craving	Constipation slight	Fugitive pains slight
Filiform and tuberose papillæ florid	Headache occasional	Pain, nausea, uneasiness	Constipation slight	Fugitive pains slight
Filiform and tuberose papillæ anemic				
Pyramidal papillæ prominent	Headache occasional	Pain, heat, nausea, craving, distension		Fugitive pains
—	—	—	—	—
TONGUE FURRED AND TREMULOUS.				
Filiform papillæ florid	Headache or	Pain		
Tuberose papillæ florid		Pain, sinking		
Filiform and tuberose papillæ florid	Headache	Pain		
Filiform and tuberose papillæ anemic				
Pyramidal papillæ prominent	Confusion	Pain, heat, craving		Fugitive pains
—	—	—	—	—
TONGUE TREMULOUS.				
Filiform papillæ florid				
Tuberose papillæ florid		Thirst, sinking, distension		
Filiform and tuberose papillæ florid		Pain, nausea, anorexia		
Filiform and tuberose papillæ anemic				
Pyramidal papillæ prominent				

ON THE APPEARANCES OF THE TONGUE WITH A FLORID, OR ANEMIC, OR A PROMINENT STATE OF THE PAPILLÆ.

A FLORID TONGUE.

A florid and clean state of the tongue, the papillæ being florid, anemic, or prominent, was attended with gastric symptoms, as pain, nausea, vomiting, acidity, and flatulency; also a sensation of gnawing or faintness, and a sinking feel at the pit of the stomach. The head was but slightly affected, and then only occasionally. Fugitive pains were especially remarked, with an erect state of the pyramidal papillæ.

When the tongue was florid and furred, gastric symptoms invariably accompanied a florid state of the papillæ; headache was confined solely to the filiform papillæ, and fugitive pains attended the prominent state of the pyramidal papillæ.

The tongue being florid, furred, and tremulous, showed no decided symptoms, excepting with the florid filiform papillæ, with which giddiness, gastric pain, and nausea were present. Fugitive pains solely accompanying the pyramidal papillæ.

With a florid and tremulous tongue, head and gastric symptoms were felt when the filiform and tuberose papillæ were florid. The head and gastric pains were more acutely complained of, with a prominent state of the pyramidal papillæ, fugitive pains solely accompanying the latter papillæ.

It seems, therefore, that when the tongue was florid, as florid and clean; as florid and furred; as florid, furred, and tremulous; as florid and tremulous, the papillæ being florid, anemic, or prominent,—that gastric pain or irritation was almost solely and invariably complained of, with the further addition of fugitive pains when the pyramidal papillæ were erect.

AN ANEMIC TONGUE.

An anemic and clean tongue, the papillæ being florid, anemic, or prominent, was invariably attended with gastric pain, nausea, and other symptoms of gastric irritability; giddiness or slight headache occasionally occurring, excepting with the pyramidal papillæ, which evinced fugitive pains, with the gastric irritability.

When the tongue was anemic, clean, and tremulous, the papillæ being florid, gastric irritation was complained of, occasionally with headache or giddiness. No symptoms attended an anemic or prominent state of the papillæ under this aspect of the tongue.

The tongue being anemic and furred, the papillæ being florid, anemic, or prominent, was attended with gastric pain or irritation, the head not sympathising with this gastric irritability. Fugitive pains accompanying the prominent state of the pyramidal papillæ.

An anemic, furred, and tremulous tongue, the filiform and tuberose papillæ being florid, showed slight gastric irritability, an anemic or prominence of the papillæ not being accompanied with any well-marked symptoms under such lingual aspect.

We therefore observe, that when the tongue was anemic, as anemic and clean; as anemic, clean, and tremulous; as anemic and furred; as anemic, furred, and tremulous, the papillæ being florid, anemic, or prominent,—that gastric pain or irritability was chiefly complained of, the head symptoms being slight, and only occasionally felt. Fugitive pains attending the prominent state of the pyramidal papillæ.

A FURRED TONGUE.

The tongue being furred and the papillæ florid, was attended with gastric pain, nausea, distension, craving, fluttering, or other uneasiness, the head being but slightly and occasionally affected. An anemic state of the papillæ seems not to have occurred with such lingual aspect. But an erect state of the pyramidal papillæ was attended with gastric pain or irritability, headache, and fugitive pains.

When the tongue was furred and tremulous, headache, or gastric pain accompanied a florid state of the papillæ. The pyramidal papillæ being prominent, was attended with gastric pain and heat, and with fugitive pains.

We thus find that a furred, or a furred and tremulous tongue, the papillæ being florid or prominent, not anemic, was accompanied with gastric irritability, and occasional headache; and with fugitive pains, the pyramidal papillæ being prominent.

A TREMULOUS TONGUE.

The tongue being tremulous, the papillæ being florid, was accompanied solely with gastric symptoms. An anemic or prominent state of the papillæ not being observable under such lingual aspect.

General Summary, or conclusion, from the appearances of the Tongue with a florid, anemic, or a prominent state of the papillæ.

When the tongue was florid, as florid and clean, florid and furred, as florid, furred, and tremulous, and tremulous—when the tongue was anemic, as anemic and clean, as anemic, clean, and tremulous, as anemic and furred, as anemic, furred, and tremulous—also when the tongue was furred, furred and tremulous—and when the tongue was tremulous—the papillæ being florid, anemic or prominent—That gastric pain or irritability was almost solely, and invariably complained of, the head symptoms being occasional and slight, and fugitive pains being the constant attendant on a prominent state of the pyramidal papillæ.

CHAPTER VII.

TABULAR ARRANGEMENT OF THE CASES IN WHICH THE PAPILLÆ WERE FLORID, OR ANEMIC. ALSO A SUMMARY OF THE SYMPTOMS.

	Florid Filiform Papillæ.	*Florid Tuberose Papillæ.*	*Florid Filiform and Tuberose Papillæ.*	*Anemic Filiform and Tuberose Papillæ.*	*Prominent Pyramidal Papillæ.*
Number of Cases	65	71	88	28	48
TONGUE'S ASPECT.					
Florid and clean	2	3	7	4	4
Florid and furred	3	12	8	2	3
Florid, furred, and tremulous	1	1	1	0	0
Florid and tremulous	0	1	2	0	2
Anemic and clean	7	5	5	15	5
Anemic, clean, tremulous	3	3	3	1	1
Anemic and furred	5	5	3	0	8
Anemic, furred, tremulous	3	0	2	0	0
Furred in	23	26	36	2	14
Furred and tremulous	7	5	12	2	2
Tremulous	2	3	3	0	2
No report	9	7	6	2	7
HEAD SYMPTOMS.					
Headache, giddiness, or confusion	35	39	42	16	20
Headache, gastric pain	23	25	35	12	18
Headache, constipation	7	23	26	8	11
Headache, gastric pain, constipation	12	16	20	6	9
No report	30	32	46	12	28
GASTRIC SYMPTOMS.					
Gastric pain	45	48	73	20	33
Gastric pain, constipation	11	31	42	11	18
Gastric with fugitive pains	8	16	17	0	16
Gastric pain, without headache	20	23	38	8	15
No report	20	23	15	8	15

	Florid Filiform Papillæ.	*Florid Tuberose Papillæ.*	*Florid Filiform and Tuberose Papillæ.*	*Anemic Filiform and Tuberose Papillæ.*	*Prominent Pyramidal Papillæ.*
BOWELS.					
Constipation	36	43	51	14	23
Constipation, without head symptoms	17	20	25	6	12
Constipation, fugitive pains	8	14	14	1	14
Regular	19	11	16	6	9
Irregular	....	2	2	2	2
Relaxed	2	3	3	....	4
No report	8	12	16	6	10
FUGITIVE PAINS.					
Fugitive pains	13	22	26	2	22
Fugitive and gastric pains, and headache	5	6	9	....	9
Fugitive and gastric pains, and constipation	7	9	9	....	11
Fugitive pains, headache, constipation	4	5	7	1	8

TABULAR SUMMARY.

	Stomach.	*Head.*	*Bowels.*	*Fugitive Pains.*
Filiform papillæ florid	45 of 65	35 of 65	36 of 65	13 of 65
Tuberose papillæ florid	48 of 71	39 of 71	43 of 71	22 of 71
Filiform and tuberose papillæ florid	73 of 88	42 of 88	51 of 88	26 of 88
Filiform and tuberose papillæ anemic	20 of 28	16 of 28	14 of 28	2 of 28
Pyramidal papillæ prominent	33 of 48	20 of 48	23 of 48	22 of 48
	219 of 300	152 of 300	167 of 300	85 of 300

CHAPTER VIII.

ON GASTRIC IRRITABILITY. ON HEADACHE. ON THE STATE OF THE BOWELS, AND ON FUGITIVE PAINS. THE FILIFORM, TUBEROSE, AND PYRAMIDAL PAPILLÆ BEING FLORID, ANEMIC, OR PROMINENT.

ON GASTRIC IRRITABILITY.

With the florid filiform papillæ gastric pain occurred in forty-five of sixty-five instances. With constipation in eleven. And with fugitive pains in eight Without headache, gastric pain was felt in twenty cases.

With the florid tuberose papillæ gastric irritation was experienced in forty-eight of seventy-one individuals. With constipation in thirty-one. And with fugitive pains in sixteen. Without headache, gastric pain was felt in twenty-three cases.

The filiform and tuberose papillæ being florid gastric pain was observed in seventy-three of eighty-eight persons. With constipation in forty-two. And with fugitive pains in seven. Without headache in thirty-eight of eighty-eight cases. In forty-six the head was unaffected.

When the papillæ were anemic, gastric pain was noticed in twenty of twenty-eight cases. With constipation in eleven. Fugitive pains did not accompany any instance of gastric irritation. Without headache, gastric pain occurred in eight of the twenty-eight individuals.

With the pyramidal papillæ there was gastric pain in thirty-three of forty-eight cases. With constipation in eighteen. And with fugitive pains in sixteen. Without headache, gastric irritation existed in fifteen.

Thus we find, that gastric pain was remarked with the florid filiform papillæ in forty-five cases, with the florid tuberose papillæ in forty-eight, with the florid filiform and tuberose papillæ in seventy-three, with the anemic filiform and tuberose papillæ in twenty, and with the prominent state of the pyramidal papillæ in thirty-three; showing that of three hundred cases, gastric irritation was felt in two hundred and nineteen.

Gastric irritation was very intense with the anemic, filiform and tuberose papillæ, and this gastric irritability was unaccompanied with fugitive pains.

Again, with the pyramidal papillæ there was intense gastric irritation with fugitive pains in twenty-two of forty-eight cases. Gastric uneasiness being complained of in thirty-three of the forty-eight.

ON HEADACHE.

When the filiform papillæ were florid the head sympathised more or less in thirty-five of sixty-five cases. With gastric symptoms in twenty-three. With constipation in seven. With gastric pain and constipation in twelve individuals.

The head was complained of in thirty-nine instances when the tuberose papillæ were florid. With gastric irritation in twenty-five of seventy-one. With constipation in sixteen.

When the filiform and tuberose papillæ were florid, the head was painful in forty-two of eighty-eight cases. With gastric pain in thirty-five. And with constipation in twenty-six. With gastric pain and constipation in twenty.

The filiform and tuberose papillæ being anemic, headache was felt in sixteen of twenty-eight individuals. With gastric irritation in twelve. With constipation in eight. And with gastric pain and constipation in six individuals.

The pyramidal papillæ being prominent, was attended with head symptoms in twenty cases. With gastric irritation in eighteen. With constipation in eleven. And with gastric pain and constipation in nine individuals.

Hence we observe that headache was remarked with the florid filiform papillæ in thirty-five, with the florid tuberose papillæ in thirty-nine, with the florid filiform and tuberose papillæ in forty-two, with the anemic filiform and tuberose papillæ in sixteen, and with the prominent pyramidal papillæ in twenty; thus showing that the head sympathised in greater or less degree in one hundred and fifty-two of three hundred cases.

Although headache was remarked in so many cases, yet the symptoms were not acute or intense; on the contrary, slight headache, confusion, or giddiness seem to have prevailed.

Neither does there seem to be any coincidence between the head and gastric symptoms.

ON THE BOWELS.

With the florid filiform papillæ constipation occurred in thirty-six of sixty-five cases. Without head symptoms in seventeen. With fugitive pains in eight.

When the tuberose papillæ were florid, constipation was complained of in forty-three of seventy-one cases. Without head symptoms in twenty. With fugitive pains in fourteen.

The filiform and tuberose papillæ being florid, constipation was observed in fifty-one of eighty-eight instances.

With an anemic condition of the filiform and tuberose papillæ constipation was noticed in fourteen of twenty-eight cases. Without head symptoms in six. With fugitive pains in one.

The pyramidal papillæ being prominent, constipation was stated to exist in twenty-three of forty-eight individuals.

We find, therefore, that constipation was complained of with the florid filiform papillæ in thirty-six, with the florid tuberose papillæ in forty-three, with the florid filiform and tuberose papillæ in fifty-one, with the anemic filiform and tuberose papillæ in fourteen, and with the pyramidal papillæ in twenty-three; thus showing that the bowels were constipated in one hundred and sixty-seven of three hundred cases.

Yet although constipation was thus observable in so many instances, it was neither a prominent or an urgent symptom.

A furred state of the tongue generally accompanied, or in the greater number of cases coincided with, constipation.

ON FUGITIVE PAINS.

With the florid filiform papillæ fugitive pains were noticed in thirteen of sixty-five cases. With headache in five. With gastric pain and constipation in seven.

The tuberose papillæ being florid, was attended with fugitive painful sensations in twenty-two of seventy-one instances. With gastric pain and headache in six. With gastric uneasiness and constipation in nine.

A florid state of the filiform and tuberose papillæ had fugitive pains in twenty-six of eighty-eight cases.

The filiform and tuberose papillæ being anemic, was accompanied with two instances only of fugitive pains of twenty-eight cases.

When the pyramidal papillæ were prominent, fugitive pains presented themselves in twenty-two of forty-eight individuals.

Hence, fugitive pains were noticed with the florid filiform papillæ in thirteen, with the florid tuberose papillæ in twenty-two, with the florid filiform and tuberose papillæ in twenty-six, with the anemic filiform and tuberose papillæ in two, and with the pyramidal papillæ in twenty-two cases. Thus, of three hundred individuals fugitive pains were complained of in eighty-five.

Fugitive pains were especially remarked when the pyramidal papillæ were prominent, in almost one half of the cases fugitive pains were present. Again, when the filiform and tuberose papillæ were anemic, fugitive pains occurred in only two cases of twenty-eight, and yet the gastric irritation was also intense.

How is this anomaly or contradiction to be explained? The anemic state of the filiform and tuberose papillæ is attended with intense gastric irritation; so also is the prominence of the pyramidal papillæ; and yet fugitive pains are at a minimum with the former, and at a maximum with the latter.

CHAPTER IX.

DEDUCTIONS FROM THE FLORID, ANEMIC, AND PROMINENT STATE OF THE FILIFORM AND TUBEROSE PAPILLÆ; AND FROM THE PROMINENT APPEARANCE OF THE PYRAMIDAL PAPILLÆ.

1. The tongue being florid, anemic, furred, clean, or tremulous, and the papillæ being florid, anemic, or prominent; gastric pain, or irritability, was almost solely, and invariably complained of. The head symptoms being occasional and slight. The fugitive pains being almost the constant attendant, on a prominent state of the pyramidal papillæ.

2. That gastric irritation was very intense with the anemic, filiform, and tuberose papillæ; this gastric uneasiness being unaccompanied with fugitive pains.

3. That constipation was not a prominent, or urgent symptom. And that a furred state of the tongue generally accompanied, or coincided with, the constipation.

4. That when the pyramidal papillæ were developed, there was intense gastric uneasiness, with fugitive pains.

5. That fugitive pains were especially remarked when the pyramidal papillæ were prominent.

6. That with the anemic, filiform, and tuberose papillæ, although the gastric pain was equally intense as when the pyramidal papillæ were erect, yet that fugitive pains did not accompany such gastric irritation.

CHAPTER X.

ON THE SENSIBILITY OF THE STOMACH AS CHARACTERIZED BY THE PROMINENCE OF THE FILIFORM AND TUBEROSE PAPILLÆ, WHETHER SUCH PAPILLÆ ARE FLORID OR ANEMIC. OBSERVATIONS ON THE TREATMENT.

An uncommon delicacy of the nerves of the stomach and intestines is to be distinguished from that acute feeling, or increased sensibility, the consequence of inflammation, since in the latter cases every acid substance gives them pain, whereas in the former many insipid and seemingly innocent aliments produce great gastric uneasiness, while volatile spirits, strong wines, are not only inoffensive but are absolutely necessary. (Whytt, 4to, 1768, p. 544.)

For this state does not consist in weakness, but in an uncommon sensibility of the gastric and intestinal nerves. (Ibid.)

There are persons labouring under chronic gastritis, in whom the tongue is roughened by a great number of papillæ, or red granulations. These granulations do not always remain in the same state, at times they are very prominent, very red, and very numerous; at other times they are less apparent, paler, and fewer in number. Their development is always in the direct ratio of the intensity of the gastric irritation. (Spillan's Andral, p. 860.)

The uncommon delicacy of the nerves of the stomach, as noticed by Whytt, the development of those nervous papillæ, as described by Andral, and the elevation of the papillæ as stated by Johnson, (Morbid Sensibility of Stomach, p. 33,) seem to coincide with the deduction—*That gastric irritation was very intense, with prominence of the filiform and tuberose papillæ.*

Opium is peculiarly useful when there is an extraordinary delicacy of the nerves, care being taken that the bowels are not constipated during its administration; the addition of a little aloetic pill to a grain or a grain and a half of opium at bedtime will be found useful in palliating the exalted sensibility of the nerves. (Whytt, p. 645.)

Occasionally, when from constitutional peculiarity neither opium nor laudanum can be borne, two or three grains of the extract of hyoscyamus, night and morning, will prove beneficial. And such medicines as produce a peculiar stimulus, and thereby render the nerves less sensitive, may be exhibited, as camphor, castor, musk, and the fetid gums. (Ib., ut supra.)

Also the nitrate of silver, on the principle that, as it allays external irritability, so it may the internal (Johnson, on Indigestion, p. 84.)

OBSERVATIONS ON THE TREATMENT.

Nitrate of Silver and Extract of Colocynth. The nitrate of silver has been extensively tried with a prominent state of the filiform and tuberose papillæ, or when the filiform papillæ were alone prominent, or when the tuberose papillæ were solely developed: this medicament has generally been combined with a cathartic, as the compound extract of colocynth, such combination being especially useful, on the ground that the bowels were inclined to be costive. The dose being half a grain of the nitrate, with two, three, or more of the colocynth in a pill, twice or thrice daily.

Bitters. The vegetable bitters, with the addition of a gentle purgative, as the infusion of quassia, of chiretta, of gentian, or of cinchona, with the compound aloetic decoction, have assisted in restoring the intestinal functions, and by so doing have much contributed to the permanent cure.

Nitrate of Silver and Morphia. When, in addition to the nitrate of silver, a sixth to an eighth of a grain of morphia was given, the combination proved eminently satisfactory; or the compound soap pill, when the morphia was not used, rarely failed in alleviating the gastric uneasiness. The vegetable bitters being persevered with.

With no medicament have we been so successful in relieving the exalted sensibility of the stomach, the filiform or tuberose papillæ being prominent, as with the nitrate of silver; yet its combination with a sedative, as morphia or opium, is a form far more efficient than when the nitrate has been used alone. Probably the full benefit has not been derived from the nitrate, in consequence of the apprehension of its inducing discoloration; although we have for some years given this medicine, yet in no individual instance has the skin been stained; considering the remarkable benefit that has been derived from it, particularly when conjoined with a sedative, judging by the results of numerous carefully digested cases, we feel justified in recommending a more general use of this remedy.

Morphia. Morphia, or sedatives uncombined, have not proved successful in more than temporarily checking the gastric sensibility, nor have they always been well borne, a cathartic necessarily being demanded to obviate the costiveness induced by these medicines. In combination with a gentle cathartic they were decidedly beneficial, as a drachm or two of the sulphate of magnesia in the doubly acidulated infusion of roses.

Prussic Acid. Prussic or hydrocyanic acid was inefficient in this state of gastric irritation, as the cure was generally perfected by the nitrate of silver.

Bitters and Cathartics. The cinchona infusion with the compound decoction of aloes, and the rhubarb pill with a few grains of powdered capsicum immediately after dinner, was a useful form of medicine in relieving the gastric pain and the headache.

Tonics and Cathartics. Cathartics and tonics were advantageous when the tongue was furred, in addition to the prominence of the filiform and tuberose papillæ but the gastric disturbance was rarely more than diminished under such course of treatment. The vegetable or mineral tonics were exhibited in the form of mixture, and a pill containing colocynth, croton oil, rhubarb, or other mild laxative, was given at night or immediately after dinner.

Mercurials. Mercurials seemed to increase the gastric irritability, it being necessary to omit them, from the aggravation of the morbid sensibility. An occasional pill when the tongue was florid and clean, with prominent papillæ, was useful, but a persistence in their exhibition invariably aggravated the uneasiness of the stomach.

CHAPTER XI.

ON THE IRRITATION OF THE STOMACH ACCOMPANYING AN ERECT STATE OF THE PYRAMIDAL PAPILLÆ; AND ON THE TREATMENT.

Among the remarkable symptoms attending hypochondriac diseases, is that of pains in different parts of the body, suddenly moving from one place to another, and apparently seated in the skin, similar pains being observed about the head. (Whytt, 588, 4to ed.)

It was shown that fugitive or flying pains were especially remarked when the pyramidal papillæ were prominent, and that intense gastric uneasiness was complained of.

Dryness of the tongue also seemed to prevail when the pyramidal papillæ were erect, for the tongue's surface being coated with a dry fur was the uniform appearance when the pyramidal papillæ were prominent, and in every case the symptoms were referred to the gastric region.

Beaumont states that when the villous coat of the stomach was inclined to dryness that a similar appearance of the tongue presented itself. Andral infers that only in acute gastritis does the tongue become remarkably dry. Abernethy observes that local irritation, or mental anxiety will cause a white and dry tongue. And it appears that general febrile irritation seems entirely to suspend the secretions of the stomach, and renders the villous coat dry, red, and irritable. (Beaumont, p. 170; Spillan's Andral, 860; Abernethy, Loc. Dis. 24; Beaumont, 78.)

We have shown that dryness of the tongue was almost a necessary accompaniment of peripneumony or of pulmonary infarction. (Part iii.) Graves observed that in gastric inflammation and ulceration, the tongue was remarkably parched. (Graves, 829.)

Dryness of the tongue's surface was rarely witnessed when treating on the "intestinal tongue," but was specially remarked with an erect state of the pyramidal papillæ.

Hence, we find that lingual dryness is present in functional disturbance of the gastro-pulmonary mucous membrane, and in disorganization of the same tissues.

But the secernents receive their nervous branches exclusively from the sympathetic system; it follows that whenever from any cause the secretions are defective that the sympathetic system is then functionally deranged.

OBSERVATIONS ON THE TREATMENT.

Mercurials. We have given mercurials an extensive trial under this aspect of the tongue; the form has been either calomel or blue-pill, followed by a purgo-tonic, as the infusion of orange peel, the guaiacum mixture, the compound decoction of aloes, the sulphate of magnesia, and other medicaments. The result of such treatment seems to be, that when the tongue is *pinky and dry*, the pyramidal papillæ being prominent, the exhibition of mercurials is well borne, and the effect is generally beneficial.

Morphia. Morphia appears to be useful when the tongue is *pinky and moist*, the pyramidal papillæ being erect.

Dryness of the tongue, says Pereira, (Mat. Med., p. 1432,) indicates the use of antimonials, and we have found much benefit from their use, providing that tonics and gentle cathartics were subsequently added.

Tonics and Purgatives. Purgatives and tonics, or the combination of them, were not answerable to our wishes, and they proved quite inefficient in alleviating the symptoms.

PART II.

TONGUE OF INTESTINAL FUNCTIONAL DERANGEMENT.

CHAPTER I.

THE TONGUE BEING FLORID AND CLEAN; WITH THE ACCOMPANYING SYMPTOMS.

TABLE OF CASES.

TONGUE FLORID OR RED UNIFORMLY AND CLEAN.				SYMPTOMS ACCOMPANYING.			
No.	*Sex.*	*Age.*	*Tongue's Aspect.*	*Head.*	*Stomach.*	*Bowels.*	*General Symptoms.*
1	Female	45	Florid, clean	Headache	No report	Irregular	Fugitive pains
2	Female	21	Florid, clean	No report	No report	Relaxed	Pain in left side
3	Female	19	Florid, clean	No report	No report	Regular	Pain in feet and hands
4	Male	24	Florid, clean	No report	Sinking	Costive	
5	Female	19	Florid, clean	Drowsiness	Pain	Regular	Pains
6	Female	30	Florid, clean	No report	No report	Relaxed	Debility, dyspnœa
7	Female	28	Florid, clean	Headache	Nausea	Costive	Dyspnœa
8	Female	25	Florid, clean	Headache	Cold sensation, flatulence	Irregular	
9	Female	18	Florid, clean	Giddiness	No report	Regular	
10	Female	15	Florid, clean	Headache	Sinking	No report	
11	Female	28	Florid, clean	No report	No report	No report	Pain between shoulders
12	Female	13	Florid, clean	Headache	Pain	Regular	Languor
13	Female	17	Florid, clean	Headache	Nausea	Regular	Pain between shoulders
14	Female	20	Florid, clean	Headache	Pain	Regular	
15	Female	17	Florid, clean	No report	Pain	Regular	Pain in body

TONGUE FLORID OR RED UNIFORMLY AND CLEAN.				SYMPTOMS ACCOMPANYING.			
No.	*Sex.*	*Age.*	*Tongue's Aspect.*	*Head.*	*Stomach.*	*Bowels.*	*General Symptoms.*
16	Female	20	Florid, clean	No report	Pain	Costive	Pain in chest
17	Female	17	Florid, clean	No report	Pain, nausea	Costive	
18	Female	15	Florid, clean	No report	Nausea	Costive	
19	Female	30	Florid, clean	No report	Pain	Relaxed	Dyspnœa, cough
20	Female	35	Florid, clean	No report	Sinking	No report	Heart's action urgent
21	Female	18	Florid, clean	Headache	Sickness	Costive	Lumbar pain
22	Female	36	Florid, clean	No report	Pain	Costive	Pain in side
23	Male	40	Florid, clean	No report	Sinking	Irregular	Dyspnœa
24	Female	18	Florid, clean	Headache	Pain, nausea	Regular	
25	Female	39	Florid, clean	No report	Pain	No report	
26	Female	29	Florid, clean	No report	No report	Costive	Skin dry
27	Female	22	Florid, clean	Headache	Thirst	Costive	Pain in right side
28	Female	28	Florid, clean	No report	No report	Costive	Fugitive pains
29	Female	40	Florid, clean	Headache	No report	Costive	Fugitive pains
30	Female	31	Florid, clean	Headache	Nausea	Regular	
31	Female	19	Florid, clean	No report	No report	Relaxed	
32	Male	43	Florid, clean	No report	Pain after food	No report	
33	Female	42	Florid, clean	Giddiness	Nausea, anorexia	Relaxed	Fugitive pains in legs
34	Female	46	Florid, clean	Oppressive feel	Distension, anorexia	Costive	
35	Female	21	Florid, clean	Headache	Pain	Regular	Fugitive pains

TONGUE FLORID OR RED UNIFORMLY AND CLEAN.				SYMPTOMS ACCOMPANYING.			
No.	*Sex.*	*Age.*	*Tongue's Aspect.*	*Head.*	*Stomach.*	*Bowels.*	*General Symptoms.*
36	Female	17	Florid, clean	No report	Pain	Costive	
37	Female	25	Florid, clean, dry	Headache	Pain, nausea, anorexia	Regular	
38	Female	25	Florid, clean, dry	No report	Pain, anorexia	Relaxed	
39	Female	19	Florid, clean, dry	No report	Faintness	Costive	
40	Female	43	Florid, clean, fissured or chinkt	No report	Pain, nausea	Costive	Palpitation
41	Female	28	Florid, clean, fissured or chinkt	No report	No report	Relaxed	
42	Female	21	Florid, clean, fissured or chinkt	No report	No report	No report	Pain in chest
43	Female	37	Florid, clean, fissured or chinkt	Headache	No report	Regular	
44	Female	16	Florid, clean, tremulous	No report	Pain	Costive	Chilness
45	Male	40	Florid, clean, tremulous	Drowsiness	Pain, distension	Costive	
46	Female	25	Florid, clean, glazed	No report	Sinking	Regular	Pains, thoracic
47	Female	55	Florid, clean, glazed	No report	No report	Irregular	
48	Female	35	Florid, clean, glazed	No report	Sinking	No report	Numb sensation

NUMERICAL SUMMARY.

TONGUE FLORID OR RED UNIFORMLY AND CLEAN.

FORTY-EIGHT CASES, OF WHICH

THE TONGUE WAS

Florid and clean in	36
Florid, clean, and dry in	3
Florid, clean, fissured in	4
Florid, clean, tremulous in	2
Florid, clean, and glazed in	3

HEAD SYMPTOMS.

Headache in	20
Headache, with gastric pain in	17
Headache, with constipation in	6
Headache, gastric pain, and constipation	5

STOMACH SYMPTOMS.

Gastric pain in	34
Gastric pain, with constipation in	14
Gastric with fugitive pains in	11
Gastric pain, without headache	18
No report of head symptoms	28
No report of gastric symptoms	14

BOWELS.

Constipation	17
Constipation, without head symptoms	11
Constipation, with fugitive pains	6
Regular	13
Irregular	4
Relaxed	7
No report	7

FUGITIVE PAINS.

Fugitive pains	18
Fugitive and gastric pains, and headache	6
Fugitive and gastric pains, and constipation	4
Fugitive pains, headache, constipation	3

When the tongue was florid or red uniformly and clean, there was gastric uneasiness, as pain, nausea, or sinking, with a sensation of coldness, thirst, distension, and flatulence.

The head presented the usual symptoms of headache, giddiness, a drowsy sensation, or an oppressive feel.

Fugitive pains were either over the gastric region, or extending between the shoulders, or occasionally in the hands or feet.

The bowels not being prominently affected

The tongue being florid, clean, and dry, the gastric symptoms were pain, nausea, anorexia, and faintness; neither the head, bowels, or fugitive pains coinciding with such gastric irritation.

When the tongue was florid, clean, and fissured, no prevailing symptom showed itself.

When a tremulous state of the tongue existed, it being also florid and clean, gastric pain was observed, with constipation.

A florid, clean, and glazed appearance of the tongue, was attended chiefly with gastric sinking.

The head sympathised more or less in twenty of forty-eight cases. Complicated with gastric pain, it was affected in seventeen; with constipation, head symptoms occurred in six; with gastric pain and constipation in five. The head symptoms were headache, giddiness, oppression, and drowsiness.

Gastric pain or irritation was felt in thirty-four instances: with constipation in fourteen; with fugitive pains in eleven; and without headache in eighteen. The gastric symptoms were pain, nausea, sinking, and a sensation of coldness, thirst, distension, and flatulence.

Constipation occurred in seventeen of forty-eight cases: without head symptoms in eleven, and with fugitive pains in six.

Fugitive pains were noticed in eighteen of the forty-eight cases: with gastric pain and headache in six; with gastric pain and constipation in four; and with headache and constipation in three instances.

The bowels do not appear to have presented any decided sympathy, or functional disturbance.

Thus, when the tongue was florid and clean, whether it was dry, or fissured, or tremulous, or glazed, gastric pain, or uneasiness, was a decided and preponderating symptom; neither the head or bowels seeming to sympathise with such gastric irritation. Although fugitive pains were observed in eighteen individuals, yet these pains were principally confined to the gastric region.

CHAPTER II.

THE TONGUE BEING FLORID AND FURRED, WITH THE ACCOMPANYING SYMPTOMS.

TABLE OF CASES.

TONGUE FLORID UNIFORMLY AND FURRED.				SYMPTOMS ACCOMPANYING.			
No.	*Sex.*	*Age.*	*Tongue's Aspect*	*Head.*	*Stomach.*	*Bowels.*	*General Symptoms.*
1	Female	16	Florid, furred	No report	No report	Costive	
2	Female	18	Florid, furred	Headache	No report	Relaxed	Palpitation
3	Female	28	Florid, furred	No report	Flatulence	Costive	Pains abdominal
4	Female	16	Florid, furred	No report	Pain, faintness	Costive	
5	Female	55	Florid, furred	No report	No report	Costive	Pains fugitive
6	Female	24	Florid, furred	No report	Pain	Costive	
7	Male	22	Florid, furred	Headache	No report	No report	Restlessness
8	Female	22	Florid, furred	No report	No report	Costive	Pains fugitive
9	Male	21	Florid, furred	No report	No report	Regular	
10	Female	20	Florid, furred	No report	No report	Costive	Pains thoracic
11	Male	46	Florid, furred	No report	No report	Regular	Spasmodic twitchings
12	Female	22	Florid, furred	No report	No report	Costive	Lumbar pains
13	Male	45	Florid, furred	No report	No report	Relaxed	
14	Female	21	Florid, furred	No report	Pain	Costive	
15	Male	32	Florid, furred	No report	Faintness	Costive	
16	Female	30	Florid, furred	Headache	Nausea, flatulency	Costive	
17	Female	39	Florid, furred	Throbbing	Tremor	No report	
18	Female	48	Florid, furred	Headache	No report	Regular	Pain between shoulders
19	Female	21	Florid, furred	No report	Pain	Costive	
20	Female	39	Florid, furred	Headache	No report	No report	Cough

TONGUE FLORID UNIFORMLY AND FURRED. SYMPTOMS ACCOMPANYING.

No.	*Sex.*	*Age.*	*Tongue's Aspect.*	*Head.*	*Stomach.*	*Bowels.*	*General Symptoms.*
21	Male	43	Florid, furred	No report	Pain	Regular	
22	Female	14	Florid, furred	No report	Sickness	Costive	
23	Male	60	Florid, furred	No report	Pain	Regular	Pain in shoulder
24	Male	24	Florid, furred	Headache	Pain, sinking	Regular	
25	Male	45	Florid, furred	Headache	No report	Costive	
26	Male	19	Florid, furred	No report	Sickness	Regular	Pain in right side
27	Female	16	Florid, furred	Headache	No report	No report	Pains fugitive
28	Female	21	Florid, furred	Giddiness	Pain	No report	Palpitation
29	Male	30	Florid, furred	No report	No report	Irregular	Fulness on right side
30	Female	65	Florid, furred	No report	Pain	Costive	
31	Female	64	Florid, furred	Giddiness	Nausea, acidity	Regular	
32	Female	18	Florid, furred, dry	Pain	No report	Costive	Pain in side
33	Male	79	Florid, furred, dry	No report	Distension	No report	Fugitive pains
34	Female	28	Florid, furred, dry	Headache	Pain	Costive	Tremor
35	Female	60	Florid, furred, fissured	No report	No report	Costive	Fugitive pains
36	Female	25	Florid, furred, fissured	Headache	No report	Costive	
37	Male	30	Florid, furred, tremulous	No report	No report	No report	Rheumatic pain
38	Male	23	Florid, furred, tremulous	No report	Tension	No report	
39	Female	38	Florid, furred, tremulous	Confusion	Pain, nausea	Costive	
40	Female	29	Florid, furred, tremulous	Headache	Pain, sinking	Costive	
41	Female	17	Florid, furred, tremulous	Headache	Heat	Costive	
42	Male	38	Florid, furred, tremulous	No report	Pain	Costive	
43	Female	28	Florid, furred, fissured, tremulous	Headache	No report	Costive	Rigors, debility
44	Female	60	Florid, furred, fissured, tremulous	No report	No report	No report	Fugitive pains

NUMERICAL SUMMARY.

TONGUE FLORID OR RED UNIFORMLY AND FURRED.

FORTY-FOUR CASES, OF WHICH

THE TONGUE WAS

Florid and furred in	31
Florid, furred, and dry in	3
Florid, furred, and fissured in	2
Florid, furred, and tremulous in	6
Florid, furred, fissured, tremulous in	2

HEAD SYMPTOMS.

Headache in	18
Headache, with gastric pain in	9
Headache, with constipation in	9
Headache, gastric pain, and constipation in	5

GASTRIC SYMPTOMS.

Gastric pain in	23
Gastric pain, with constipation in	14
Gastric with fugitive pains in	4

Gastric pain, without headache in	13
No report of head symptoms in	26
No report of gastric symptoms in	21

BOWELS.

Constipation	24
Constipation, without head symptoms	15
Constipation, with fugitive pains	7
Regular	8
Irregular	1
Relaxed	2
No report	9

FUGITIVE PAINS.

Fugitive pains	14
Fugitive and gastric pains, and headache	0
Fugitive and gastric pains, and constipation	1
Fugitive pains, headache, constipation	1

When the tongue was florid or red uniformly and furred, there was gastric uneasiness, as pain, nausea, faintness, tremor, acidity, flatulence and a sinking sensation. The head symptoms, as headache, throbbing, or giddiness, were not numerous or prominent. Fugitive pains were felt either between the shoulders or on the right side, or in the abdomen, thorax, loins, or elsewhere, neither were fugitive pains observed but in few instances.

The bowels were inclined to be costive.

The tongue being florid, furred, and dry in so few cases as hardly to justify more than the observation, that the head, stomach, and bowels were affected, with the addition of fugitive pains.

The tongue being florid, furred, and fissured, offered no prevailing symptom.

When the tongue was florid, furred, and tremulous, gastric pain and constipation were remarked.

When the tongue was florid, furred, fissured, and tremulous, neither the head, stomach, nor bowels were complained of.

The head sympathised more or less in eighteen of forty-four cases. Complicated with gastric pain it was affected in nine. With constipation, head symptoms occurred in nine. With gastric pain and constipation in five. The head symptoms were headache, throbbing, and giddiness, or confusion.

Gastric pain or irritation was felt in twenty-three instances. With constipation in fourteen. With fugitive pains in four, and without headache in thirteen. The gastric symptoms were pain, nausea, sinking, and acidity; tremor, distension, flatulence, and faintness.

Constipation occurred in twenty-four of forty-four cases, without head symptoms in fifteen, and with fugitive pains in seven.

Fugitive pains were noticed in fourteen of forty-four cases. With gastric pain and constipation in one, and with headache and constipation in one.

The bowels were costive in twenty-four of forty-four individuals, regular in eight, and relaxed in two.

Hence, whether the tongue was florid uniformly and furred, or coated with a dry fur, or fissured, or tremulous, or fissured and tremulous, constipation was a very prominent symptom, or gastric irritation, either of which seemed a prevalent source of complaint; headache, and also fugitive pains apppearing to coincide.

CHAPTER III.

THE TONGUE BEING ANEMIC AND CLEAN, WITH THE ACCOMPANYING SYMPTOMS.

TABLE OF CASES.

TONGUE ANEMIC AND CLEAN.				SYMPTOMS ACCOMPANYING.			
No.	*Sex.*	*Age.*	*Tongue's Aspect.*	*Head.*	*Stomach.*	*Bowels.*	*General Symptoms.*
1	Female	15	Anemic, clean	No report	No report	Costive	Pain in side
2	Female	14	Anemic, clean	Throbbing	Pain, nausea	Costive	Palpitation
3	Female	35	Anemic, clean	Headache	Pain, flatulency	Regular	
4	Female	20	Anemic, clean	Giddiness	No report	No report	
5	Female	19	Anemic, clean	Giddiness	No report	Costive	Numbness in left arm
6	Female	22	Anemic, clean	No report	Pain	Costive	Pain in left side
7	Female	55	Anemic, clean	No report	Sinking	Regular	Dyspnœa
8	Female	18	Anemic, clean	No report	No report	No report	Pain in back
9	Female	47	Anemic, clean	Headache	Pain, nausea	Costive	Dyspnœa, palpitation
10	Female	17	Anemic, clean	Headache	No report	Regular	Pain in right side
11	Female	21	Anemic, clean	No report	Sinking	Regular	Palpitation
12	Female	21	Anemic, clean	Giddiness	Nausea	Regular	Pain in loins
13	Female	17	Anemic, clean	Headache	No report	Regular	Pain in legs
14	Female	25	Anemic, clean	Headache	No report	Regular	
15	Female	24	Anemic, clean	Headache	No report	Regular	
16	Female	18	Anemic, clean	No report	No report	Costive	
17	Female	19	Anemic, clean	Headache	Sinking	Regular	
18	Female	20	Anemic, clean	No report	Pain	Regular	

TONGUE ANEMIC AND CLEAN.				SYMPTOMS ACCOMPANYING.			
No.	*Sex.*	*Age.*	*Tongue's Aspect.*	*Head.*	*Stomach.*	*Bowels.*	*General Symptoms.*
19	Female	17	Anemic, clean	No report	No report	No report	Pain in legs
20	Female	16	Anemic, clean	No report	No report	Costive	
21	Female	21	Anemic, clean	No report	Sinking, anorexia	Costive	
22	Female	42	Anemic, clean	No report	Oppression; faintness	Regular	
23	Female	24	Anemic, clean	No report	Pain, faintness	Regular	Pain in loins
24	Female	22	Anemic, clean	Headache	No report	Costive	Hysteria
25	Female	17	Anemic, clean	Headache	No report	Costive	
26	Female	48	Anemic, clean	No report	No report	No report	Pains
27	Female	37	Anemic, clean	No report	No report	Regular	Pain in abdomen
28	Female	43	Anemic, clean	No report	No report	Regular	Palpitation
29	Female	20	Anemic, clean	Headache	No report	No report	
30	Female	24	Anemic, clean	Giddiness	Faintness after food	Regular	Pain in side and back
31	Female	24	Anemic, clean	Headache	Sinking sensation	Regular	Pain in right side
32	Female	52	Anemic, clean	Giddiness	Distension,	Costive	Palpitation
33	Female	19	Anemic, clean	No report	Pain, anorexia	No report	
34	Female	31	Anemic, clean	Headache	No report	Regular	Pain in right side
35	Female	52	Anemic, clean	No report	Pain, flatulence	No report	
36	Female	39	Anemic, clean	No report	Pain	Regular	
37	Female	18	Anemic, clean	Headache	Pain	Costive	
38	Female	19	Anemic, clean	No report	No report	Costive	Palpitation
39	Female	17	Anemic, clean	Headache	No report	Regular	Hysterical
40	Female	19	Anemic, clean	Headache	Nausea, anorexia	Costive	
41	Female	19	Anemic, clean	Headache	Pain, nausea, anorexia	Costive	Pain in legs or aching

TONGUE ANEMIC AND CLEAN. SYMPTOMS ACCOMPANYING.

No.	*Sex.*	*Age.*	*Tongue's Aspect.*	*Head.*	*Stomach.*	*Bowels.*	*General Symptoms.*
42	Female	18	Anemic, clean	Headache	Pain	Regular	
43	Female	18	Anemic, clean	Headache	Pain	Costive	
44	Female	19	Anemic, clean	Headache	Anorexia	Costive	Fugitive pains
45	Female	16	Anemic, clean	Headache	Anorexia	Costive	
46	Female	32	Anemic, clean	Headache	Pain	Costive	
47	Female	25	Anemic, clean, sodden, or tumid	No report	Pain	Regular	
48	Female	41	Anemic, clean, sodden, or tumid	No report	No report	No report	
49	Female	26	Anemic, clean, sodden, or tumid	No report	No report	Costive	Pain in loins
50	Male	33	Anemic, clean, sodden, or tumid	No report	Pain, nausea	Regular	
51	Female	19	Anemic, clean, sodden, or tumid	No report	No report	Costive	Pain in chest
52	Female	26	Anemic, clean, sodden, or tumid	No report	No report	Irregular	
53	Female	36	Anemic, clean, sodden, or tumid	Headache	Sinking sensation	Regular	
54	Female	22	Anemic, clean, sodden, or tumid	No report	No report	Costive	Hysteria, palpitation
55	Female	30	Anemic, clean, sodden, or tumid	Giddiness	No report	Costive	
56	Female	18	Anemic, clean, sodden, or tumid	No report	No report	Costive	Hysteria
57	Female	45	Anemic, clean, sodden, or tumid	Headache	Thirst	Costive	
58	Female	22	Anemic, clean, sodden, or tumid	Headache	No report	No report	
59	Female	18	Anemic, clean, sodden, or tumid	Giddiness	Sinking sensation	Costive	
60	Female	18	Anemic, clean, sodden, or tumid	Giddiness	Pain, sinking	Costive	
61	Female	22	Anemic, clean, sodden, or tumid	Headache	No report	Irregular	
62	Female	24	Anemic, clean, sodden, or tumid	Headache	No report	Costive	
63	Female	30	Anemic, clean, sodden, or tumid	Headache	Pain	Costive	
64	Female	40	Anemic, clean, sodden, or tumid	No report	No report	Costive	

TONGUE ANEMIC AND CLEAN.				SYMPTOMS ACCOMPANYING.			
No.	*Sex.*	*Age.*	*Tongue's Aspect.*	*Head.*	*Stomach.*	*Bowels.*	*General Symptoms.*
65	Female	37	Anemic, clean, sodden, or tumid	Headache	Anorexia	Regular	Pain in legs
66	Female	20	Anemic, clean, sodden, or tumid	Headache	Pain	Costive	
67	Female	49	Anemic, clean, sodden, or tumid	Headache	Anorexia	Costive	
68	Female	19	Anemic, clean, sodden, or tumid	Headache	No report	Costive or regular	Pain in side
69	Female	33	Anemic, clean, sodden, or tumid	No report	Anorexia	Costive	
70	Male	29	Anemic, clean, sodden, or tumid	Headache	Sinking sensation	Irregular	
71	Female	31	Anemic, clean, sodden, or tumid	Headache	No report	Regular	
72	Female	58	Anemic, clean, sodden, or tumid	No report	No report	Regular	
73	Female	50	Anemic, clean, sodden, or tumid	Headache	No report	Costive	Fugitive pains
74	Female	41	Anemic, clean, sodden, fissured	No report	No report	No report	Pain in duodenum
75	Female	47	Anemic, clean, sodden, fissured	No report	No report	Regular	Pain in legs
76	Female	28	Anemic, clean, sodden, fissured	No report	No report	Irregular	Pain in back and side
77	Female	41	Anemic, clean, sodden, fissured	No report	Pain, flatulency	No report	Pains fugitive
78	Female	38	Anemic, clean, sodden, fissured	Giddiness	Nausea	Regular	Pains fugitive
79	Male	54	Anemic, clean, sodden, fissured	Headache	Nausea, pain	Regular	
80	Male	25	Anemic, clean, tremulous	No report	No report	Irregular	
81	Female	16	Anemic, clean, tremulous	No report	No report	Regular	Pain in hips and back
82	Female	14	Anemic, clean, tremulous	Headache	No report	Costive	Pain in legs
83	Female	17	Anemic, clean; tremulous	Headache	Pain after food	No report	Pains fugitive
84	Female	27	Anemic, clean, tremulous	No report	Cold feel, flatus	No report	Palpitation
85	Female	18	Anemic, clean, tremulous	No report	Pain	No report	
86	Female	17	Anemic, clean, tremulous	No report	No report	No report	Palpitation

TONGUE ANEMIC AND CLEAN.				SYMPTOMS ACCOMPANYING.			
No.	*Sex.*	*Age.*	*Tongue's Aspect.*	*Head.*	*Stomach.*	*Bowels.*	*General Symptoms.*
87	Female	40	Anemic, clean, tremulous	No report	No report	Costive	Fugitive pains
88	Male	34	Anemic, clean, tremulous	No report	Flatulency	No report	Pain in abdomen
89	Male	60	Anemic, clean, tremulous	No report	No report	Relaxed	Pain in legs
90	Female	37	Anemic, clean, tremulous	No report	Flatulency	Costive	
91	Female	56	Anemic, clean, tremulous	Confusion	Pain, nausea, sinking	Costive	
92	Female	28	Anemic, clean, tremulous	Headache	Sinking, anorexia	Costive	
93	Female	30	Anemic, clean, tremulous	Throbbing	Tension, flatulence	Regular	
94	Female	52	Anemic, clean, fissured, glazed	No report	Pain	Regular	Pain between shoulders
95	Female	54	Anemic, clean, fissured, glazed	No report	Sinking sensation	Relaxed	
96	Female	29	Anemic, clean, pale, or white and smooth	Headache or	Pains alternating	Costive	
97	Female	21	Anemic, clean, pale, or white and smooth	No report	Sinking sensation	No report	
98	Female	22	Anemic, clean, pale, or white and smooth	Giddiness	Pain	No report	Fugitive pains
99	Female	16	Anemic, clean, pale, or white and smooth	Pain	No report	Regular	

NUMERICAL SUMMARY.

TONGUE ANEMIC AND CLEAN.

NINETY-NINE CASES, OF WHICH

THE TONGUE WAS

Anemic and clean in	46
Anemic, clean, sodden, or tumid in	27
Anemic, clean, sodden, fissured in	6
Anemic, clean, tremulous in	14
Anemic, clean, fissured, glazed in	2
Anemic, clean, pale or white, and smooth in	4

HEAD SYMPTOMS.

Headache in	53
Headache, with gastric pain in	33
Headache, with constipation in	29
Headache, gastric pain, and constipation in	20

GASTRIC SYMPTOMS.

Gastric pain in	54
Gastric pain, with constipation in	24
Gastric with fugitive pains in	14

Gastric pain, without headache in	21
No report of head symptoms in	46
No report of gastric symptoms in	45

BOWELS.

Constipation	41
Constipation, without head symptoms	14
Constipation, with fugitive pains	11
Regular	33
Irregular	5
Relaxed	2
No report	18

FUGITIVE PAINS.

Fugitive pains	33
Fugitive and gastric pains, and headache	9
Fugitive and gastric pains, and constipation	4
Fugitive pains, headache, constipation	5

When the tongue was anemic and clean, there seemed to be a tendency to gastric pain, or headache, or constipation, or to fugitive pains. Sometimes alternating, and occasionally the head sympathised with the gastric irritation, or gastric and fugitive pains coincided, or constipation and fugitive pains; and so with respect to other symptoms, there being no individual case unaccompanied with head or gastric symptoms, constipation or fugititive pains; neither was there observable any decidedly preponderating symptom either of the stomach, head, bowels, or of fugitive pains.

When the tongue was anemic, clean, sodden, or tumid, constipation was rather oftener observable than gastric pain, headache, or fugitive pains; yet not in any considerable disproportionate degree, the observations respecting the anemic and clean tongue are applicable to this aspect of the lingual surface.

The tongue being anemic, clean, sodden, fissured, presented fugitive pains in every instance, nor other coinciding symptom of head, stomach, or bowels.

The tongue being anemic, clean, and tremulous, headache, or gastric pain, or fugitive pains, seemed equally to prevail, constipation not being so observable.

With an anemic, clean, fissured, and glazed tongue, in both cases gastric pain or sinking was noticed, with pain between the shoulders in one of the two; neither the head nor the bowels sympathised.

When the tongue was anemic, clean, pale or white, and smooth, gastric pain prevailed, or headache sometimes alternating.

The head sympathised more or less in fifty-three of ninety-nine cases. Complicated with gastric pain it was affected in thirty-three. With constipation, head symptoms occurred in twenty-nine. With gastric pain and constipation in twenty. The head symptoms were headache, confusion, giddiness, or throbbing.

Gastric pain or irritation was felt in fifty-four instances. With constipation in twenty-four. With fugitive pains in fourteen; and without headache in twenty-one. The gastric symptoms were anorexia, faintness, distension, or thirst, pain, nausea, flatulence or sinking, oppression, and a cold sensation.

Constipation occurred in forty-one of ninety-nine cases; without head symptoms in fourteen; and with fugitive pains in eleven.

Fugitive pains were noticed in thirty-three of the ninety-nine cases. With gastric pain and headache in nine. With gastric pain and constipation in five instances.

The bowels were constipated in forty-one, and were regular in thirty-three individuals.

Thus, when the tongue was anemic and clean, and whether it was sodden and tumid, or sodden and fissured, or tremulous, or fissured and glazed, or when it was pale, white, and smooth; head, gastric, or fugitive pains and constipation were present, and sometimes complicated with each other, or alternating. Neither did the head and gastric pains, or constipation and fugitive pains, preponderate considerably over each other, as it was observed that if headache, or gastric pain, or fugitive pains did not occur, that constipation was complained of, and so in like way with other symptoms. Hysteria occasionally was present.

This is the anemic, atonic, enervated, flabby, flaccid, sodden, and pale, or blanched tongue, described by writers. The system suffers from languor, the muscular structure of the tongue seems flaccid, and the mucous tissue presents the like exsanguined and pallid aspect.

CHAPTER IV.

THE TONGUE BEING ANEMIC AND FURRED; WITH THE ACCOMPANYING SYMPTOMS.

TABLE OF CASES.

TONGUE ANEMIC AND FURRED.				ACCOMPANYING SYMPTOMS.			
No.	*Sex.*	*Age.*	*Tongue's Aspect.*	*Head.*	*Stomach.*	*Bowels.*	*General Symptoms.*
1	Male	27	Anemic, furred	Headache	Nausea	Costive	Pain in duodenum
2	Male	47	Anemic, furred	Confusion	No report	Costive	
3	Male	28	Anemic, furred	No report	No report	Costive	Bilious feelings
4	Female	38	Anemic, furred	Headache	No report	Costive	Fugitive pains
5	Female	63	Anemic, furred	No report	No report	Costive	Fugitive pains
6	Female	33	Anemic, furred	No report	No report	Costive	Bilious sensations
7	Female	48	Anemic, furred	No report	Thirst	Costive	
8	Female	60	Anemic, furred	No report	No report	Costive	Pain hepatic
9	Male	39	Anemic, furred	No report	No report	Costive	Palpitation
10	Female	29	Anemic, furred	No report	Exalted sensibility	Costive	Hysteria
11	Female	18	Anemic, furred	No report	Nausea	Regular	
12	Female	17	Anemic, furred	Headache	No report	No report	
13	Female	35	Anemic, furred	No report	Sinking	No report	
14	Female	42	Anemic, furred	Headache	No report	No report	
15	Female	52	Anemic, furred	Headache	No report	No report	
16	Male	35	Anemic, furred	No report	Faintness	Costive	
17	Male	11	Anemic, furred	Headache	Nausea	Costive	
18	Female	19	Anemic, furred	No report	No report	Regular	Palpitation
19	Female	19	Anemic, furred	No report	Pain	Regular	
20	Female	54	Anemic, furred	No report	Acidity	Costive	Fugitive pains

TONGUE ANEMIC AND FURRED.				ACCOMPANYING SYMPTOMS.			
No	*Sex.*	*Age.*	*Tongue's Aspect.*	*Head.*	*Stomach.*	*Bowels.*	*General Symptoms.*
21	Male	34	Anemic, furred	Headache	No report	Costive	Hepatic fulness
22	Male	35	Anemic, furred	Headache	No report	Costive	
23	Male	69	Anemic, furred	No report	No report	No report	Dyspnœa
24	Female	16	Anemic, furred	No report	No report	Regular	Fugitive pains
25	Male	21	Anemic, furred	No report	Pain	Costive	Palpitation
26	Female	23	Anemic, furred	No report	No report	Regular	Fugitive pains
27	Female	23	Anemic, furred	Headache	Nausea, sinking	Regular	Tremor
28	Female	43	Anemic, furred	No report	No report	Costive	Fugitive pains
29	Male	30	Anemic, furred	No report	No report	Costive	Fugitive pains
30	Female	32	Anemic, furred	No report	No report	Costive	Fugitive pains
31	Female	28	Anemic, furred	Giddiness	Oppression	Regular	
32	Female	23	Anemic, furred	Headache	No report	Costive	
33	Male	19	Anemic, furred	No report	No report	Costive	
34	Female	35	Anemic, furred	No report	Pain	Costive	
35	Male	28	Anemic, furred	No report	Flatulent	Costive	
36	Female	27	Anemic, furred	No report	Cardialgia	Costive	
37	Male	23	Anemic, furred	No report	Pain	Regular	
38	Male	23	Anemic, furred	No report	Oppression	No report	
39	Female	45	Anemic, furred	Headache	No report	Costive	
40	Male	53	Anemic, furred	No report	Pain	Costive	
41	Female	50	Anemic, furred	Headache	Heat	Costive	
42	Female	43	Anemic, furred	No report	No report	Costive	
43	Male	50	Anemic, furred	Drowsy	No report	Costive	

TONGUE ANEMIC AND FURRED.				ACCOMPANYING SYMPTOMS.			
No.	*Sex.*	*Age.*	*Tongue's Aspect.*	*Head.*	*Stomach.*	*Bowels.*	*General Symptoms.*
44	Female	64	Anemie, furred	No report	No report	Costive	Fugitive pains
45	Female	35	Anemie, furred	No report	No report	Costive	Fugitive pains
46	Female	27	Anemie, furred	Headaehe	Fluttering	Costive	
47	Female	15	Anemie, furred	No report	No report	Costive	
48	Female	10	Anemie, furred	No report	No report	Costive	
49	Female	37	Anemie, furred	Headaehe	Oppression	Costive	Fugitive pains
50	Male	23	Anemie, furred	Headaehe	Pain	Costive	
51	Female	49	Anemie, furred	Headaehe	Oppression	Costive	
52	Female	28	Anemic, furred	No report	No report	No report	Fugitive pains
53	Female	22	Anemic, furred	No report	No report	Costive	Fugitive pains
54	Female	60	Anemie, furred	No report	Pain	Costive	
55	Female	30	Anemie, furred	No report	Fluttering	Costive	
56	Male	35	Anemic, furred	Headache	No report	Costive	
57	Female	25	Anemie, furred	No report	No report	Costive	
58	Female	58	Anemie, furred	No report	Pain, nausea	Irregular	Palpitation
59	Female	30	Anemic, furred	No report	No report	Costive	Fugitive pains
60	Female	14	Anemic, furred	No report	Pain, faintness	Costive	
61	Female	16	Anemie, furred	Headaehe	Nausea	Costive	
62	Male	52	Anemie, furred	No report	Pain, cardialgia	Costive	
63	Female	36	Anemic, furred	Headache	No report	Regular	
64	Male	55	Anemic, furred	No report	Fluttering	Costive	
65	Female	56	Anemie, furred	No report	Oppression	Regular	
66	Female	18	Anemie, furred	Headache	No report	Costive	

TONGUE ANEMIC AND FURRED.				ACCOMPANYING SYMPTOMS.			
No.	*Sex.*	*Age.*	*Tongue's Aspect.*	*Head.*	*Stomach.*	*Bowels.*	*General Symptoms.*
67	Female	35	Anemic, furred	Headache	Pain	Regular	
68	Female	53	Anemic, furred	No report	No report	Costive	
69	Female	20	Anemic, furred	No report	Pain, faintness	Regular	Fugitive pains
70	Female	17	Anemic, furred	Headache	Pain	Regular	Hysteria
71	Female	49	Anemic, furred	No report	Oppression	Costive	Fugitive pains
72	Female	22	Anemic, furred	No report	Pain after food	Costive	
73	Male	50	Anemic, furred	No report	No report	Costive	Pain in left side
74	Male	21	Anemic, furred	No report	No report	Costive	
75	Female	37	Anemic, furred	Headache	No report	Regular	
76	Female	63	Anemic, furred	No report	Pain	Costive	
77	Female	25	Anemic, furred	No report	Sinking	Costive	Pain in left side
78	Female	22	Anemic, furred	No report	No report	Costive	
79	Female	29	Anemic, furred	Headache	No report	Costive	Fugitive pains
80	Male	22	Anemic, furred	No report	No report	No report	
81	Female	46	Anemic, furred	No report	Pains, heat	Costive	
82	Female	32	Anemic, furred	Headache	No report	Costive	
83	Female	40	Anemic, furred	No report	Pain after food	Costive	
84	Female	44	Anemic, furred	Confusion	Nausea	Costive	Pain in side
85	Male	41	Anemic, furred	No report	Sinking	Costive	
86	Female	23	Anemic, furred	Headache, giddiness	Pain	Irregular	
87	Male	48	Anemic, furred	Headache, giddiness	No report	Regular	
88	Female	46	Anemic, furred	No report	Fluttering, flatus	Costive	
89	Female	20	Anemic, furred	Headache	Nausea	Costive	Pain in side

TONGUE ANEMIC AND FURRED. ACCOMPANYING SYMPTOMS.

No.	*Sex.*	*Age.*	*Tongue's Aspect.*	*Head.*	*Stomach.*	*Bowels.*	*General Symptoms.*
90	Female	22	Anemic, furred	No report	No report	Regular	
91	Female	42	Anemic, furred	Giddiness	Soreness	Costive	Pains in side
92	Female	24	Anemic, furred	No report	Anorexia, cramp	Costive	Cramp
93	Female	55	Anemic, furred	Headache	Oppression	Costive	
94	Male	67	Anemic, furred	No report	Flatulence	Costive	
95	Female	17	Anemic, furred	Headache or	Pain or uneasiness	Costive	
96	Female	44	Anemic, furred	No report	Acidity, anorexia	Costive	Fugitive pains
97	Female	26	Anemic, furred	Headache or	Pain	Costive	
98	Male	30	Anemic, furred	No report	Sinking, anorexia	Costive	
99	Female	16	Anemic, furred	Headache	No report	No report	Fugitive pains
100	Female	16	Anemic, furred	No report	No report	Costive	
101	Male	44	Anemic, furred	No report	Aching, fluttering	Irregular	
102	Female	30	Anemic, furred	Pain, giddiness	Oppression, anorexia	Costive	
103	Male	26	Anemic, furred	Giddiness	Gnawing	Costive	
104	Female	24	Anemic, furred	Headache	Sinking, oppression	No report	
105	Male	28	Anemic, furred	Headache	Pain	Costive	
106	Female	24	Anemic, furred	Headache	No report	Costive	Fugitive pains
107	Male	57	Anemic, furred	Headache	Thirst	Regular	
108	Female	24	Anemic, furred	No report	Pain	Regular	
109	Female	27	Anemic, furred	Headache	Pain	Costive	
110	Male	30	Anemic, furred	No report	Pain, sinking	Costive	
111	Female	25	Anemic, furred	Headache	Pain	No report	
112	Female	62	Anemic, furred	No report	Pain, nausea	Irregular	

TONGUE ANEMIC AND FURRED.				ACCOMPANYING SYMPTOMS.			
No.	*Sex.*	*Age.*	*Tongue's Aspect.*	*Head.*	*Stomach.*	*Bowels.*	*General Symptoms.*
113	Male	10	Anemic, furred	No report	No report	Costive	
114	Male	44	Anemic, furred	No report	Sinking, distension	Irregular	
115	Female	30	Anemic, furred	Pain, confusion	Fluttering	Costive	
116	Female	19	Anemic, furred	Giddiness, throbbing	Sinking	Regular	
117	Male	22	Anemic, furred	No report	Heat, sinking	Irregular	Fugitive pains
118	Female	24	Anemic, furred	Giddiness	Sinking, anorexia	No report	
119	Female	26	Anemic, furred	No report	Pain	Costive	
120	Female	19	Anemic, furred	Headache	Anorexia	Costive	
121	Male	47	Anemic, furred	Headache	Flatulency	Regular	Fugitive pains
122	Male	48	Anemic, furred	Headache	Pain	Costive	Fugitive pains
123	Female	63	Anemic, furred	Throbbing	Flatulent	Costive	
124	Male	26	Anemic, furred	Headache	No report	Regular	
125	Female	23	Anemic, furred	Headache	Pain, nausea, sinking	Regular	
126	Female	23	Anemic, furred	Headache	Pain	Costive	
127	Female	43	Anemic, furred	Headache, or oppression	Sinking, fluttering	Costive	
128	Female	14	Anemic, furred with a dryish mucus	Giddiness	Nausea	Regular	
129	Female	23	Anemic, furred with a dryish mucus	Headache, giddiness	Pain, nausea	Costive	
130	Female	18	Anemic, furred with a dryish mucus	Headache	Pain, nausea	Costive	
131	Female	29	Anemic, furred with a dryish mucus	No report	Aching	Costive	Fugitive pains
132	Male	25	Anemic, furred, sodden, or indented, or tumid, &c. &c.	Headache	No report	Costive	Pains fugitive
133	Female	63	Anemic, furred, sodden, &c.	Headache	No report	Costive	

TONGUE ANEMIC AND FURRED.				ACCOMPANYING SYMPTOMS.			
No.	*Sex.*	*Age.*	*Tongue's Aspect.*	*Head.*	*Stomach.*	*Bowels.*	*General Symptoms.*
134	Male	46	Anemic, furred, sodden, &c.	No report	Acidity	No report	Pains fugitive
135	Male	32	Anemic, furred, sodden, &c.	Headache, or giddiness	No report	Costive	Palpitation
136	Female	48	Anemic, furred, sodden, &c.	No report	Pain	Costive	Cramp
137	Female	14	Anemic, furred, sodden, &c.	Headache	No report	Costive	Palpitation
138	Female	13	Anemic, furred, sodden, &c.	No report	No report	Costive	Spasms muscular
139	Male	20	Anemic, furred, sodden, &c.	No report	No report	Regular	Fugitive pains
140	Male	33	Anemic, furred, sodden, &c.	No report	Sinking	Costive	Fugitive pains
141	Female	24	Anemic, furred, sodden, &c.	No report	No report	Costive	Fugitive pains
142	Female	42	Anemic, furred, sodden, &c.	No report	Flatulency	Costive	Hysteria
143	Female	43	Anemic, furred, sodden, &c.	Headache	Nausea	Costive	
144	Female	28	Anemic, furred, sodden, &c.	No report	Sinking	Costive	Palpitation
145	Female	33	Anemic, furred, sodden, &c.	Headache	Pain	Regular	
146	Female	42	Anemic, furred, sodden, &c.	No report	Fluttering, flatus	Costive	
147	Female	40	Anemic, furred, sodden, &c.	Headache	Pain	Costive	
148	Female	24	Anemic, furred, sodden, &c.	Headache	Pain	Regular	
149	Female	34	Anemic, furred, sodden, &c.	No report	No report	Costive	
150	Female	42	Anemic, furred, sodden, &c.	No report	Fluttering, tremor	Costive	
151	Female	53	Anemic, furred, sodden, &c.	No report	Nausea, anorexia	Costive	
152	Male	25	Anemic, furred, sodden, &c.	No report	No report	Costive	
153	Female	36	Anemic, furred, sodden, &c.	Headache, confusion	No report	Costive	
154	Male	14	Anemic, furred, sodden, &c.	No report	No report	Costive	Pains fugitive

TONGUE ANEMIC AND FURRED.				ACCOMPANYING SYMPTOMS.			
No.	*Sex.*	*Age.*	*Tongue's Aspect.*	*Head.*	*Stomach.*	*Bowels.*	*General Symptoms.*
155	Female	21	Anemic, furred, sodden, &c.	No report	Pains	Irregular	Palpitation
156	Male	18	Anemic, furred, sodden, &c.	No report	No report	Costive	
157	Female	41	Anemic, furred, sodden, &c.	No report	Pain	Regular	
158	Female	49	Anemic, furred, sodden, &c.	Headache	Pain	Costive	
159	Female	30	Anemic, furred, sodden, &c.	Headache	Pain, fluttering	Costive	
160	Female	39	Anemic, furred, sodden, &c., and fissured	Headache	No report	Costive	Bilious feeling
161	Female	18	Anemic, furred, sodden, &c., and fissured	No report	No report	Costive	Fugitive pains
162	Female	30	Anemic, furred, sodden, &c., and fissured	Throbbing, oppression	Nausea	Costive	
163	Female	19	Anemic, furred, sodden, &c., and fissured	Headache	No report	Costive	Fugitive pains
164	Female	21	Anemic, furred, tremulous	Headache	No report	Costive	Fugitive pains
165	Male	26	Anemic, furred, tremulous	No report	Pain, heat	Relaxed	Pyrosis
166	Male	50	Anemic, furred, tremulous	Headache	Flatulency	Regular	Pains lumbar
167	Male	24	Anemic, furred, tremulous	Confusion	No report	Regular	
168	Female	67	Anemic, furred, tremulous	Headache	No report	Costive	
169	Female	17	Anemic, furred, tremulous	No report	Gnawing feel	Costive	
170	Female	22	Anemic, furred, tremulous	Headache	No report	No report	Pain in limbs
171	Male	58	Anemic, furred, tremulous	No report	No report	Costive	Fugitive pains
172	Female	18	Anemic, furred, tremulous	No report	Sinking	Costive	Palpitation
173	Female	52	Anemic, furred, tremulous	Headache	No report	Relaxed	Fugitive pains
174	Female	24	Anemic, furred, tremulous	Headache	Sinking, anorexia	Regular	
175	Male	26	Anemic, furred, tremulous	Headache	Sinking	Costive	
176	Female	35	Anemic, furred, tremulous	Headache	Pain, anorexia	Regular	
177	Female	40	Anemic, furred, tremulous	Headache	No report	Costive	

TONGUE ANEMIC AND FURRED.				ACCOMPANYING SYMPTOMS.			
No.	*Sex.*	*Age.*	*Tongue's Aspect.*	*Head.*	*Stomach.*	*Bowels.*	*General Symptoms.*
178	Female	61	Anemic, furred, tremulous	Headache	Pain, flatus	Costive	
179	Male	28	Anemic, furred, tremulous	No report	Sinking	Costive	Fugitive pains
180	Female	34	Anemic, furred, tremulous	No report	Pain, nausea	No report	
181	Female	20	Anemic, furred, tremulous	No report	Pain	Regular	
182	Male	28	Anemic, furred, tremulous	Headache	Anorexia	Costive	
183	Male	23	Anemic, furred, tremulous	No report	Pain, fluttering	No report	
184	Female	22	Anemic, furred, tremulous	Headache	Pain	No report	
185	Male	46	Anemic, furred, tremulous	No report	Pain	Costive	
186	Female	25	Anemic, furred, tremulous	No report	No report	Regular	
187	Male	75	Anemic, furred, tremulous	No report	Aching	Relaxed	
188	Female	28	Anemic, furred, tremulous	No report	Pain, anorexia	Regular	
189	Female	43	Anemic, furred, tremulous	Headache	Fluttering	Regular	
190	Female	32	Anemic, furred, tremulous	Headache	No report	Regular	
191	Male	36	Anemic, furred, tremulous	Headache	Aching, sinking	Costive	
192	Female	24	Anemic, furred, tremulous, and fissured	Headache	No report	Irregular	Fugitive pains
193	Female	40	Anemic, furred, tremulous, and fissured	No report	Throbbing	Regular	
194	Female	31	Anemic, furred, tremulous, and fissured	No report	No report	No report	Hysteria
195	Female	45	Anemic, furred, tremulous, and fissured	Headache	Pain, anorexia	Costive	
196	Female	45	Anemic, furred, tremulous, and fissured	Headache	Pain, anorexia	Costive	
197	Male	39	Anemic, furred, tremulous, and fissured	Confusion, or dimness	Sinking, anorexia	Regular	
198	Male	28	Anemic, furred, tremulous, large	Giddiness	No report	Costive	Pains in colon
199	Male	24	Anemic, furred, tremulous, large	No report	No report	Irregular	Numbness of surface
200	Female	16	Anemic, furred, tremulous, large	Headache	No report	Costive	Fugitive pains

TONGUE ANEMIC AND FURRED. ACCOMPANYING SYMPTOMS.

No.	*Sex.*	*Age*	*Tongue's Aspect.*	*Head.*	*Stomach.*	*Bowels.*	*General Symptoms.*
201	Female	30	Anemic, furred, tremulous, large	No report	Oppression, sinking	Regular	
202	Male	33	Anemic, furred, edges clean	No report	No report	Relaxed	Pain hepatic
203	Female	13	Anemic, furred, edges clean	Throbbing	No report	Costive	Palpitation
204	Female	15	Anemic, furred, edges clean	Headache	No report	Regular	
205	Female	26	Anemic, furred, edges clean	No report	Sinking, flatus	Costive	
206	Female	20	Anemic, furred, edges clean	Headache	Pain	No report	
207	Female	31	Anemic, furred, edges clean	No report	Sinking, anorexia	No report	
208	Female	21	Anemic, furred, edges clean	Headache	No report	No report	Pains fugitive
209	Female	26	Anemic, furred, edges clean	No report	Oppression, sinking	Costive	
210	Female	11	Anemic, furred, edges clean	Drowsiness	No report	No report	
211	Male	32	Anemic, furred, edges clean	No report	No report	Costive	Fugitive pains
212	Female	23	Anemic, furred, edges and apex clean	Giddiness	No report	Regular	
213	Female	52	Anemic, furred, edges and apex clean	Swimming	Pain, anorexia	Regular	
214	Female	38	Anemic, furred, fissured	Headache, or drowsiness	No report	Costive	
215	Female	21	Anemic, furred, fissured	No report	No report	Costive	Bilious sensations
216	Female	41	Anemic, furred, fissured	No report	Pain	No report	
217	Female	40	Anemic, furred, fissured	No report	No report	Costive	Fugitive pains
218	Female	23	Anemic, furred, fissured	Headache	No report	Costive	Fugitive pains
219	Female	33	Anemic, furred, fissured	No report	Anorexia, sinking	Costive	
220	Female	56	Anemic, furred, fissured	No report	Uneasiness, flatus	No report	
221	Female	30	Anemic, furred, fissured	Confusion	Nausea sinking	Costive	

NUMERICAL SUMMARY.

TONGUE ANEMIC AND FURRED.

TWO HUNDRED AND TWENTY-ONE CASES, OF WHICH THE TONGUE WAS

Anemic and furred in	127
Anemic, furred with a dryish mucus in	4
Anemic, furred, sodden, indented, white, pallid, broad, tumid, large, thick, in	28
Anemic, furred, sodden, &c. and fissured	4
Anemic, furred, tremulous in	28
Anemic, furred, tremulous, fissured	6
Anemic, furred, tremulous, large	4
Anemic, furred, edges clean in	10
Anemic, furred, edges and apex clean	2
Anemic, furred, fissured in	8

HEAD SYMPTOMS.

Headache in	105
Headache, with gastric pain, in	60
Headache, with constipation, in	64
Headache, gastric pain, and constipation	38

GASTRIC SYMPTOMS.

Gastric pain in	131
Gastric pain, with constipation, in	81
Gastric with fugitive pains in	17
Gastric pain, without headache, in	71
No report of head symptoms in	116
No report of gastric symptoms in	90

BOWELS.

Constipation	142
Constipation, without head symptoms	77
Constipation, with fugitive pains	37
Regular	42
Irregular	8
Relaxed	4
No report	24

FUGITIVE PAINS.

Fugitive pains	52
Fugitive and gastric pains, and headache	8
Fugitive and gastric pains, and constipation	13
Fugitive pains, headache, constipation	13

When the tongue was anemic and furred, there was a tendency chiefly to constipation, then to gastric pain, headache, and lastly, to fugitive pains; fugitive pains being generally accompanied by constipation.

There seemed to be no apparent coincidence between gastric pain and headache. Gastric pain, headache, and constipation, not unfrequently occurred together, being noticed in twenty-five instances at least.

The most constant symptom was constipation, next to which gastric pain or irritation preponderated.

The tongue being anemic, and furred with a dryish mucus, gastric pain and headache were remarked, especially the former, constipation also was noticed. But the stomach was most acutely complained of.

With an anemic, furred, sodden, indented, white, pallid, broad, tumid, large, or thick tongue, constipation was the most constant symptom; next to which gastric pain was felt, and then headache, fugitive pains not being a prominent symptom.

When the tongue was anemic, furred, sodden, indented, &c. &c. and fissured, constipation and headache were especially observed, but chiefly constipation.

An anemic, furred, and tremulous tongue, was attended with gastric pain in the most prominent degree; headache seeming almost equally to prevail, and coinciding very closely with the gastric irritation. Constipation occurred next in frequency.

When anemic, furred, tremulous, and fissured, gastric pain and headache were together noticed, nor did the bowels evince any tendency to constipation.

With an anemic, furred, tremulous, and large tongue, fugitive pains, or a generally numb sensation, or pain in the region of the colon, presented themselves.

The tongue being anemic, furred, edges clean, the stomach and head were principally affected, or constipation was observable.

When the tongue was anemic and furred, the edges and apex being clean, the head was affected, then the stomach.

But when the tongue was anemic, furred, and fissured, constipation, gastric irritation, and then headache, were noticed, but chiefly constipation.

The head sympathized more or less, in one hundred and five cases of one hundred and twenty-seven. Complicated with gastric irritation it was affected in sixty.

With constipation head symptoms occurred in sixty-four. And with gastric pain and constipation in thirty-eight. The head symptoms were, pain, oppression, or a throbbing sensation; headache, dimness, confusion, or giddiness; swimming, and a drowsy feeling.

Gastric pain or irritation was felt in one hundred and thirty-one instances. With constipation in eighty-one. Without headache in seventy-one. And with fugitive pains in seventeen. The gastric symptoms were pain, uneasiness, sinking, faintness, and oppression; nausea, flatulence, acidity, thirst, and cardialgia; heat, soreness, fluttering, faintness, and anorexia; aching, gnawing, distension, and an occasional instance of exalted sensibility.

Constipation occurred in one hundred and forty-two of two hundred and twenty-one cases. Without head symptoms in seventy-seven. And with fugitive pains in thirty-seven.

Fugitive pains were noticed in fifty-two, of the two hundred and twenty-one cases. With gastric pain and headache in eight. With gastric pain and constipation in thirteen. And with headache and constipation in thirteen.

The bowels were constipated in one hundred and forty-two, of two hundred and twenty-one individuals, and were regular in forty-two.

Thus, when the tongue was anemic and furred with a moist mucus, constipation was the most prominent symptom; but if the fur was dry, then the stomach was chiefly the seat of complaint, the cases characterized by a dryish appearance of the mucous secretion were too few in number to justify any general inference respecting them. .

Constipation was the prevailing symptom with a sodden, indented, white, &c. appearance of the tongue; also with a fissured appearance of this organ, hence one hundred and sixty-seven cases showed a decided preponderance of constipation. Gastric pain or irritation being the next prevailing symptom.

It seems, however, that when the tongue was tremulous, as anemic, furred, tremulous—as tremulous and fissured—as tremulous and large—that gastric pain preponderated, then headache, the latter symptom coinciding very closely with the gastric irritability. Also, when the edges were clean, the tongue being anemic and furred, the stomach and head were more complained of, than was constipation.

Hence, a tremulous appearance of the tongue is attended with symptoms that prevail over those that accompany simply an anemic and furred tongue, and it seems that the stomach is the source of complaint when the tongue is anemic, furred, and tremulous.

It is this aspect of the tongue that is attended with bilious feelings, pains in the duodenal region, hysterical symptoms, fluttering, gnawing, palpitation, and a host of anomalous and indescribable sensations.

This is the appearance of tongue that has been described as furrowed, fissured, cleft, chinkt, and sulcous; or coated, crusted, foul, furred, or loaded, according to the consistency or tenuity of the mucous secretion with which its surface may be covered.

CHAPTER V.

THE APEX OF THE TONGUE BEING FLORID, AND THE SURFACE FURRED; WITH THE ACCOMPANYING SYMPTOMS.

TABLE OF CASES.

APEX OF TONGUE FLORID, SURFACE FURRED.					ACCOMPANYING SYMPTOMS.			
No.	*Sex.*	*Age.*	*Apex.*	*Tongue's Aspect.*	*Head.*	*Stomach.*	*Bowels.*	*General Symptoms.*
1	Male	32	Florid	Furred with slimy mucus	No report	Pain, cold sensation	Costive	
2	Female	19	Florid	Furred	No report	Pain after food	Costive	
3	Male	22	Florid	Furred	No report	Pain	Irregular	
4	Female	17	Florid	Furred	No report	No report	Costive	
5	Female	24	Florid	Furred	Confusion	Anorexia	Costive	
6	Female	6	Florid	Furred	No report	No report	No report	Cough irritative
7	Male	22	Florid	Furred	No report	No report	Regular	Pain in hepatic region
8	Male	60	Florid	Furred	No report	Sinking	No report	Œdema
9	Male	51	Florid	Furred	No report	No report	Regular	Faintness
10	Female	27	Florid	Furred	No report	Flatulency	Costive	
11	Male	48	Florid	Furred	No report	No report	No report	Pains fugitive
12	Male	24	Florid	Furred	Giddiness	Uneasiness	Costive	Pains fugitive
13	Female	30	Florid	Furred	Headache	Pain	Costive	
14	Female	30	Florid	Furred	No report	Pain	Costive	
15	Male	22	Florid	Furred	No report	No report	Costive	
16	Female	12	Florid	Furred	Headache	Pain	Costive	Pains fugitive
17	Male	21	Florid	Furred	Drowsiness	Craving	Costive	Pains in legs
18	Male	37	Florid	Furred	No report	Distension	Regular	

APEX OF TONGUE FLORID, SURFACE FURRED. ACCOMPANYING SYMPTOMS.

No.	*Sex.*	*Age.*	*Apex.*	*Tongue's Aspect.*	*Head.*	*Stomach.*	*Bowels.*	*General Symptoms.*
19	Female	24	Florid	Furred	Throbbing	No report	Regular	Pains thoracic
20	Female	16	Florid	Furred	Headache	Faintness after food	Costive	Pains lumbar
21	Female	41	Florid	Furred	Headache	Pain, sinking	Costive	
22	Female	25	Florid	Furred, dry, white	No report	No report	Costive	
23	Female	25	Florid	Furred, dry, white	No report	No report	Costive	Pain in back
24	Female	17	Florid	Furred, fissured	Giddiness	Anorexia	Regular	Pain between shoulders
25	Female	37	Florid	Furred, edges clean	Headache	Sinking	Costive	Pain in legs
26	Male	25	Florid	Furred, tremulous	No report	Pain, or uneasiness	Regular	
27	Female	20	Florid	Furred, tremulous	Headache	Anorexia	Regular	
28	Female	20	Florid	Furred, sodden, indented	No report	Faintness	Costive	
29	Male	49	Florid	No report	Headache	Pain	No report	Pains fugitive
30	Female	32	Florid	No report	Headache	Sinking	Costive	
31	Female	18	Florid	No report	Headache	No report	Regular	

NUMERICAL SUMMARY.

APEX FLORID, SURFACE FURRED.

THIRTY-ONE CASES, OF WHICH THE TONGUE WAS

Furred with slimy mucus in	21
Furred with a dry mucus in	2
Furred and tremulous in	2
Furred and sodden in	1
Furred, edges being clean, in	1
Furred and fissured in	1
No report in	3

HEAD SYMPTOMS.

Headache in	14
Headache with gastric pain in	12
Headache with constipation in	9
Headache, gastric pain, and constipation in	9

STOMACH SYMPTOMS.

Gastric pain in	21
Gastric pain with constipation in	14
Gastric with fugitive pains in	7

Gastric pain, without headache	9
No report of head symptoms	17
No report of gastric symptoms	10

BOWELS.

Constipation	18
Constipation, without head symptoms	9
Constipation, with fugitive pains	6
Regular	8
Irregular	1
Relaxed	0
No report	4

FUGITIVE PAINS.

Fugitive pains	11
Fugitive and gastric pains, and headache	6
Fugitive and gastric pains, and constipation	5
Fugitive pains, headache, constipation	5

When the tongue was furred with a slimy mucus, the apex being florid, gastric pain and constipation prevailed in about equal proportion, and there seemed to be a marked coincidence between gastric pain and constipation, for without constipation gastric irritation was remarked but in three instances of the twenty-one. Headache sympathized with gastric pain and constipation, as did fugitive pains, neither of these symptoms occurring but in few instances.

The apex being florid and the tongue furred with a dry mucous coat, constipation was solely complained of. Furred and tremulous, gastric pain with headache prevailed. Furred and sodden, gastric pain and headache occurred. The edges clean, an equal tendency was noticed to gastric pain, constipation, and headache. No report of the tongue's surface, the apex being florid, gastric pain and headache was felt. When furred and fissured, headache, stomach and fugitive pains were experienced.

The head sympathized more or less in fourteen of the thirty-one cases. Complicated with gastric irritation it was affected in twelve. With constipation head symptoms occurred in nine; and with gastric pain and constipation, also in nine. The head symptoms were, pain, confusion, giddiness, throbbing, and drowsiness.

Gastric pain or irritation was felt in twenty-one of thirty-one instances. With constipation in fourteen. Without headache in nine. And with fugitive pains in seven. The gastric symptoms were pain, sinking, anorexia; uneasiness, flatulency, and craving; faintness after food, distension, and a cold sensation in the gastric region.

Constipation occurred in eighteen of thirty-one cases. Without head symptoms in nine. And with fugitive pains in six.

Fugitive pains were noticed in eleven of the thirty-one cases. With gastric pain and headache in six. With gastric pain and constipation in five. And with headache and constipation in five.

The bowels were constipated in eighteen of thirty-one individuals, and were regular in eight.

Hence, the tongue's apex being florid, gastric pain and constipation prevailed in the greater number of the cases, yet there seemed to be a variation of symptoms when the tongue was tremulous or sodden, or when the edges were clean, the head being then also affected, nor was constipation complained of, gastric pain or irritation accompanying the headache. We therefore observe that gastric pain invariably accompanies a florid apex, and that constipation frequently occurred, the head occasionally sympathizing.

CHAPTER VI.

THE EDGES OF THE TONGUE BEING FLORID, AND THE SURFACE FURRED; WITH THE ACCOMPANYING SYMPTOMS.

TABLE OF CASES.

EDGES OF TONGUE FLORID, SURFACE FURRED.					SYMPTOMS ACCOMPANYING.			
No.	*Sex.*	*Age.*	*Edges.*	*Tongue's Aspect.*	*Head.*	*Stomach.*	*Bowels.*	*General Symptoms.*
1	Female	15	Florid	Furred with slimy mucus	Headache	Pain	Regular	
2	Female	23	Florid	Furred "	No report	Faintness, gnawing	Costive	
3	Female	41	Florid	Furred "	No report	No report	Costive	Pain abdominal
4	Female	26	Florid	Furred "	No report	Anorexia	Irregular	Pain abdominal
5	Female	58	Florid	Furred "	Headache	Oppression	No report	Pain abdominal
6	Male	20	Florid	Furred "	No report	No report	Costive	Pain in left side
7	Male	20	Florid	Furred "	No report	No report	Regular	Pain hepatic
8	Female	20	Florid	Furred "	No report	No report	No report	
9	Female	18	Florid	Furred "	No report	No report	Relaxed	
10	Female	17	Florid	Furred "	Headache	Sinking	Regular	Pain in joints
11	Male	23	Florid	Furred "	Confusion	Pain, gnawing	No report	
12	Female	14	Florid	Furred "	No report	No report	Costive	Pain in shoulder
13	Female	60	Florid	Furred "	Giddiness	No report	Regular	
14	Female	21	Florid	Furred "	Headache	No report	Relaxed	
15	Female	17	Florid	Furred "	No report	Pain, nausea	Relaxed	Pain epigastric
16	Male	22	Florid	Furred "	No report	No report	No report	Pains fugitive

EDGES OF TONGUE FLORID, SURFACE FURRED. ACCOMPANYING SYMPTOMS.

No.	*Sex.*	*Age.*	*Edges.*	*Tongue's Aspect.*	*Head.*	*Stomach.*	*Bowels.*	*General Symptoms.*
17	Female	21	Florid	Furred with slimy mucus	Headache	No report	Costive	
18	Male	17	Florid	Furred "	No report	Pain	Costive	
19	Male	11	Florid	Furred "	Headache	Oppression	Costive	
20	Male	23	Florid	Furred "	No report	Pain	No report	Pain in limbs
21	Female	40	Florid	Furred "	Headache	Nausea	Costive	
22	Female	25	Florid	Furred "	Headache	No report	Costive	
23	Male	40	Florid	Furred "	No report	Sinking	Costive	
24	Female	20	Florid	Furred "	Headache	Sensibility exalted	Relaxed	
25	Female	42	Florid	Furred "	No report	No report	Costive	
26	Female	22	Florid	Furred "	No report	No report	Regular	
27	Male	24	Florid	Furred "	No report	Anorexia	Costive	
28	Male	25	Florid	Furred "	No report	Anorexia	Costive	
29	Female	33	Florid	Furred "	No report	Pain	Relaxed	
30	Female	24	Florid	Furred "	No report	No report	No report	Pains fugitive
31	Female	31	Florid	Furred with a dry mucus	Giddiness, headache	Anorexia, thirst	Costive	
32	Male	43	Florid	Furred, tremulous	No report	Anorexia	Relaxed	Lumbar heat
33	Female	26	Florid	Furred, tremulous	No report	Nausea	Costive	
34	Female	30	Florid	Furred, tremulous	Headache	Pain	Costive	
35	Female	28	Florid	Furred, tremulous	Headache	Pain, acidity	Regular	
36	Female	53	Florid	Furred, tremulous	No report	Pain	Costive	

EDGES OF TONGUE FLORID, SURFACE FURRED.					ACCOMPANYING SYMPTOMS.			
No.	*Sex.*	*Age.*	*Edges.*	*Tongue's Aspect.*	*Head.*	*Stomach.*	*Bowels.*	*General Symptoms.*
37	Female	5	Florid	Furred, tremulous	No report	Pain	No report	
38	Male	55	Florid	Furred, tremulous	No report	No report	Regular	
39	Female	17	Florid	Furred, sodden, or tumid	Headache	Pain, gnawing	Irregular	Pain in shoulder
40	Female	47	Florid	Furred, sodden, or tumid	Headache	Thirst, flatulency	Costive	Hepatic weight
41	Female	22	Florid	Furred, sodden, or tumid	Headache, giddiness	Anorexia	Costive	
42	Male	23	Florid	Furred, sodden, or tumid	No report	No report	Costive	Pains fugitive
43	Male	45	Florid	No report	No report	Nausea	No report	
44	Female	29	Florid	No report	No report	No report	Costive	Palpitation
45	Female	21	Florid	No report	No report	No report	Relaxed	[thighs
46	Male	19	Florid	No report	No report	Sinking, faintness	Costive	Pains in loins and
47	Female	18	Florid	No report	No report	Pain	Regular	
48	Male	14	Florid	No report	No report	No report	Constipation	
49	Female	22	Florid	No report	Headache	No report	Regular	

NUMERICAL SUMMARY.

EDGES FLORID, SURFACE FURRED.

FORTY-NINE CASES, OF WHICH

THE TONGUE WAS

Furred with a slimy mucus in	30
Furred with a dry mucus in	1
Furred and tremulous in	7
Furred and sodden, or tumid in	4
No report in	7

HEAD SYMPTOMS.

Headache in	18
Headache, with gastric pain in	13
Headache, with constipation in	8
Headache, gastric pain, and constipation in	6

GASTRIC SYMPTOMS.

Gastric pain in	29
Gastric pain with constipation in	14
Gastric with fugitive pains in	7

Gastric pain without headache in	16
No report of head symptoms	31
No report of gastric symptoms	20

BOWELS.

Constipation	23
Constipation, without head symptoms	15
Constipation, with fugitive pains	5
Regular	9
Irregular	2
Relaxed	7
No report	8

FUGITIVE PAINS.

Fugitive pains	13
Fugitive and gastric pains, and headache	2
Fugitive and gastric pains, and constipation	1
Fugitive pains, headache, constipation	0

When the tongue was furred with a slimy mucus, the edges being florid, gastric pain was noticed in sixteen of the thirty cases; complicated with headache in seven, and with constipation in the like number. But headache was complained of in eleven of the thirty cases; with constipation in four, and with fugitive pains in two. Constipation occurred in thirteen instances, with fugitive pains in three. Fugitive pains were felt in eleven instances. Gastric pain was therefore the most prevalent symptom; next to which constipation may be arranged. Headache and fugitive pains being equally felt.

Furred with a dry mucus, the stomach and head were coincidently affected.

When tremulous, the stomach especially evinced acute irritability.

When sodden or tumid, the stomach, head, and bowels were affected.

The head sympathized more or less in eighteen of the forty-nine cases. Complicated with gastric pain in thirteen; with constipation in eight; with gastric pain and constipation in six.

Gastric pain or irritation was felt in twenty-nine of the forty-nine instances. With constipation in fourteen. Without headache in sixteen. And with fugitive pains in seven. The gastric symptoms were pain, thirst, gnawing, and faintness; anorexia, oppression, sinking, and nausea.

Constipation occurred in twenty-three of forty-nine cases. Without head symptoms in fifteen. And with fugitive pains in five.

Fugitive pains were noticed in thirteen of the forty-nine cases. With gastric pain and headache in two. With gastric pain and constipation in one. But no instance occurred of fugitive pains, headache, and constipation.

The bowels were constipated in twenty-three cases of the forty-nine.

Hence, the tongue's edges being florid, gastric pain or irritation chiefly prevailed, constipation was also observed in a considerable number of the cases; there did not appear to be any coincidence of symptoms; nor was there observed to be much modification of the symptoms whether the tongue was furred with a slimy mucus, or with a dry coat, or when it was tremulous or sodden.

We therefore infer that the stomach was the chief seat of irritation, and that costiveness was also a prominent complaint, when the edges of the tongue were florid and its surface coated.

CHAPTER VII.

THE DIFFERENT APPEARANCES OF THE TONGUE WHEN FLORID OR ANEMIC; WITH THE ACCOMPANYING SYMPTOMS, AND A SUMMARY OF THE SAME.

APPEARANCES OF THE TONGUE WHEN FLORID, ANEMIC; ALSO THE APEX BEING FLORID, AND THE EDGES, WITH THE SYMPTOMS OF THE HEAD, STOMACH, AND THE GENERAL SENSATIONS ACCOMPANYING THEM.

Tongue's Appearance.	*Head Symptoms.*	*Stomach Symptoms.*	*Bowels.*	*Fugitive Pains.*
TONGUE FLORID.				
Florid and clean	Headache, giddiness, drowsiness, oppression	Pain, nausea, sinking, coldness, thirst, distension, flatulence		Pains between shoulders, hands, or feet
Florid, clean, and dry		Pain, nausea, anorexia, faintness.	Constipation	Pains fugitive
Florid, clean, fissured				
Florid, clean, tremulous		Pain, first degree	Constipation	
Florid, clean, glazed		Sinking sensation		
Florid, furred	Headache, throbbing, giddiness	Pain, nausea, faintness, tremor, acidity, flatulence, sinking, first degree	Constipation, second degree	Pains between shoulders, abdomen, thorax, loins, or elsewhere, second degree
Florid, furred, dry	Headache	Pain	Constipation	Pains fugitive
Florid, furred, tremulous		Pain	Constipation	
Florid, furred, fissured, tremulous				

Tongue's Appearance.	*Head Symptoms.*	*Stomach Symptoms.*	*Bowels.*	*Fugitive Pains.*
TONGUE ANEMIC.				
Anemic, clean	Headache or	Pains or	Constipation or	Pains fugitive
Anemic, clean, sodden, or tumid	Headache or	Pains or	Constipation or	Pains fugitive
Anemic, clean, sodden, fissured				Pains fugitive
Anemic, clean, tremulous	Headache or	Pains		Pains fugitive
Anemic, clean, fissured, glazed		Pain, sinking		Pain between shoulders
Anemic, clean, pale, or white	Headache or	Pain		
Anemic, furred with moist mucus	Headache slight	Pain slight	Constipation or	Pains fugitive
Anemic, furred with dry mucus	Headache	Pains prevailing	Constipation	
Anemic, furred, sodden, indented, white, pallid, tumid, &c.	Headache in third degree	Pains in second degree	Constipation prevailing	
Anemic, furred, sodden, and fissured	Headache in second degree		Constipation prevailing	
Anemic, furred, tremulous	Headache, second degree	Pains prevailing, first degree	Constipation, third degree	
Anemic, furred, tremulous, fissured	Headache	Pain, first degree		
Anemic, furred, tremulous, large			Colon painful	Pains fugitive
Anemic, furred, edges clean	Headache	Pain or	Constipation	
Anemic, furred, edges and apex clean	Headache, first degree	Pain		
Anemic, furred, fissured	Headache, third degree	Pain, second degree	Constipation, first degree	

Tongue's Appearance.	*Head Symptoms.*	*Stomach Symptoms.*	*Bowels.*	*Fugitive Pains.*
APEX FLORID.				
Furred with slimy mucus	Headache, third degree	Pain and	Constipation	Pains fugitive, fourth degree
Furred with a dry mucus			Constipation	
Furred, tremulous	Headache	Pain, first degree		
Furred, sodden	Headache	Pain, first degree		
Furred, edges clean	Headache	Pain, first degree	Constipation	
Furred, fissured	Headache	Pain, first degree		Pains fugitive
—	—	—	—	—
EDGES FLORID.				
Furred with slimy mucus	Headache, third degree	Pain, first degree	Constipation, second degree	Pains fugitive, fourth degree
Furred with a dry mucus	Headache	Pain, first degree		
Furred and tremulous		Pain, first degree		
Furred and sodden	Headache	Pain, first degree	Constipation	

SUMMARY

OF THE SYMPTOMS ACCOMPANYING A FLORID OR ANEMIC STATE OF THE TONGUE, THE APEX OR EDGES BEING ALSO FLORID.

When the tongue was florid and clean, whether it was dry or fissured, or tremulous, or glazed, gastric pain, or uneasiness, was a decided and preponderating symptom. Neither the head or bowels seeming to sympathize with such gastric irritation. Although fugitive pains were observed in eighteen individuals, yet these pains were principally confined to the gastric region.

With a uniformly florid tongue, and furred, or coated with a dry fur, or fissured, or tremulous, or fissured and tremulous, constipation was a very prominent symptom, or gastric irritation, either of which seemed a prevalent source of complaint, headache and fugitive pains appearing to coincide.

The tongue being anemic and clean, whether it was sodden and tumid, or sodden and fissured, or tremulous, or fissured and glazed, or when it was pale, white, and smooth, head, gastric, or fugitive pains, and constipation were present, and sometimes complicated with each other, or alternating. Neither did the head and gastric pains, or constipation and fugitive pains preponderate considerably over each other, as it was observed that if headache, or gastric pain, or fugitive pains did not occur, that constipation was complained of, and so in like way with other symptoms. Hysteria occasionally was present.

But when the tongue was anemic and furred with a moist mucus, constipation was the most prominent symptom; if the fur was dry, then the stomach was chiefly the seat of complaint, the cases characterized by a dryish appearance of the mucous secretion were too few in number to justify any general inference respecting them. Constipation was the prevailing symptom with a sodden, indented, white, &c. appearance of the tongue; also with a fissured appearance of this organ; hence, one hundred and sixty-seven cases showed a decided preponderance of constipation. Gastric pain, or irritation, being the next prevailing symptom.

It seems, however, that when the tongue was tremulous, as anemic, furred, tremulous; as tremulous and fissured; as tremulous and large; that gastric pain preponderated, then headache, the latter symptom coinciding very closely with the gastric irritability. Also, when the edges were clean, the tongue being anemic and furred, the stomach and head were more complained of, than was constipation. Hence, a tremulous appearance of the tongue is attended with symptoms that prevail over those that accompany simply an anemic and furred tongue, and it seems that the stomach is the source of complaint when the tongue is anemic, furred, and tremulous.

The tongue's apex being florid, gastric pain and constipation prevailed in the greater number of the cases, yet there seemed to be a variation of symptoms when the tongue was tremulous or sodden, or when the edges were clean, the head being then also affected, nor was constipation complained of, gastric pain or irritation accompanying the headache.

We therefore observe, that gastric pain invariably accompanies a florid apex, and that constipation frequently occurred, the head occasionally sympathizing.

The tongue's edges being florid, gastric pain or irritation chiefly prevailed, constipation was also observed in a considerable number of the cases; there did not appear to be any coincidence of symptoms. Nor was there observed to be much modification of the symptoms, whether the tongue was furred with a slimy mucus, or with a dry coat, or when it was tremulous or sodden. We therefore infer that the stomach was the chief seat of irritation, and that costiveness was also a prominent complaint when the edges of the tongue were florid and its surface coated.

CHAPTER VIII.

TABULAR ARRANGEMENT OF THE CASES IN WHICH THE TONGUE WAS FLORID, ANEMIC, CLEAN, OR FURRED. ALSO A SUMMARY OF THE SYMPTOMS. AND ON GASTRIC IRRITABILITY, HEADACHE, STATE OF THE BOWELS, AND ON FUGITIVE PAINS.

TABULAR ARRANGEMENT.

	Florid and Clean.	*Florid and Furred.*	*Anemic and Clean.*	*Anemic and Furred.*	*Apex Florid and Surface Furred.*	*Edges Florid and Surface Furred.*
Number of Cases	48	44	99	221	31	49
TONGUE'S ASPECT.						
Moist	36	31	46	127	....	....
Dry	3	3	....	4	....	....
Fissured	4	2	....	8	1	....
Tremulous	2	6	14	28	2	7
Glazed	3	....	2	....	....	....
Sodden, tumid, indented, &c. &c.	....	....	27	28	1	4
Sodden, fissured	....	....	6	4	....	....
Fissured, glazed	....	....	....	....	....	....
Pale, white, and smooth	....	....	4	....	....	....
Fissured, tremulous	....	2	....	6	....	....
Tremulous, large	....	....	....	4	....	....
Edges clean	....	....	....	10	1	....
Edges and apex clean	....	....	....	2	....	....
Slimy mucus	....	....	....	....	21	30
Dry mucus	....	....	....	....	2	1
No report	....	....	....	....	3	7

	Florid and Clean.	*Florid and Furred.*	*Anemic and Clean.*	*Anemic and Furred.*	*Apex Florid and Surface Furred.*	*Edges Florid and Surface Furred.*
HEAD SYMPTOMS.						
Headache	20	18	53	105	14	18
Headache, with gastric pain	17	9	33	60	12	13
Headache, with constipation	6	9	29	64	9	8
Headache, gastric pain, constipation	5	5	20	38	9	6
STOMACH SYMPTOMS.						
Gastric pain	34	23	54	131	21	29
Gastric pain, with constipation	14	14	24	81	14	14
Gastric with fugitive pains	11	4	14	17	7	7
Gastric pain, without headache	18	13	21	71	9	16
No report of head symptoms	28	26	46	116	17	31
No report of gastric symptoms	14	21	45	90	10	20
BOWELS.						
Constipation	17	24	41	142	18	23
Constipation, without head symptoms	11	15	14	77	9	15
Constipation, with fugitive pains	6	7	11	37	6	5
Regular	13	8	33	42	8	9
Irregular	4	1	5	8	1	2
Relaxed	7	2	2	4	....	7
No report	7	9	18	24	4	8
FUGITIVE PAINS.						
Fugitive pains	18	14	33	52	11	13
Fugitive and gastric pains, and headache	6	....	9	8	6	2
Fugitive and gastric pains, and constipation	4	1	4	13	5	1
Fugitive pains, headache, constipation	3	1	5	13	5	....

TABULAR SUMMARY.

	Stomach.	*Head.*	*Bowels.*	*Fugitive Pains.*
Tongue florid and clean	34 of 48	20 of 48	17 of 48	18 of 48
Tongue florid and furred	23 of 44	18 of 44	24 of 44	14 of 44
Tongue anemic and clean	54 of 99	53 of 99	41 of 99	33 of 99
Tongue anemic and furred	131 of 221	105 of 221	142 of 221	52 of 221
Apex florid, surface furred	21 of 31	14 of 31	18 of 31	11 of 31
Edges florid, surface furred	29 of 49	18 of 49	23 of 49	13 of 49
	292 of 492	238 of 492	265 of 492	141 of 492

On Gastric Irritability, the Tongue being Florid, Anemic; the Apex being Florid, and the Edges.

With a florid and clean tongue, gastric pain or irritation was felt in thirty-four of forty-eight instances. With constipation in fourteen. And with fugitive pains in eleven. Without headache in eighteen.

The tongue being florid and furred, gastric pain or irritation was observed in twenty-three of forty-four cases. With constipation in fourteen. With fugitive pains in four. And without headache in thirteen.

When the tongue was anemic and clean, gastric pain or irritation occurred in fifty-four of ninety-nine cases. With constipation in twenty-four. With fugitive pains in fourteen. And without headache in twenty-one.

An anemic and furred tongue was accompanied with gastric pain or uneasiness in one hundred and thirty-one instances of two hundred and twenty-one. With constipation in eighty-one. Without headache in seventy-one. And with fugitive pains in seventeen.

The apex of the tongue being florid, gastric irritation was felt in twenty-one of thirty-one individuals. With constipation in fourteen. Without headache in nine And with fugitive pains in seven.

With florid edges, gastric pain or irritation was complained of in twenty-nine of the forty-nine cases. With constipation in fourteen. Without headache in sixteen. And with fugitive pains in seven.

Thus we find that gastric pain was remarked, with a florid and clean tongue, in thirty-four of forty-eight cases; with a florid and furred tongue in twenty-three of forty-four; with an anemic and clean tongue in fifty-four of ninety-nine instances; with an anemic and furred tongue in one hundred and thirty-one of two hundred and twenty-one; with a florid apex, and furred surface in twenty-one of thirty-one; and with florid edges, and a furred surface in twenty-nine of forty-nine cases; showing that of four hundred and ninety-two cases, in two hundred and ninety-two was gastric pain or uneasiness complained of.

Gastric pain or uneasiness was a decided and preponderating symptom when the tongue was florid and clean, neither the head or bowels seeming to sympathize with such gastric irritation.

But with an anemic and clean tongue, gastric irritability alternated with other symptoms.

Gastric pain invariably accompanied a florid apex, or florid edges.

On Head Symptoms, the Tongue being Florid or Anemic; the Apex or the Edges being Florid.

With a florid and clean tongue, the head sympathized more or less in twenty of forty-eight cases. With constipation in six. With gastric pain and constipation in five.

The tongue being florid and furred, the head was affected in eighteen of forty-four cases. With gastric pain in nine. With constipation and gastric pain in five.

When the tongue was anemic and clean, the head sympathized more or less in fifty-three of ninety-nine cases. With gastric pain in thirty-three. With constipation in twenty-nine. With gastric pain and constipation in twenty.

When the tongue was anemic and furred, the head was affected in one hundred and five cases of one hundred and twenty-seven. With gastric irritation in sixty. With constipation in sixty-four.

The apex being florid, the head symptoms were noticed in fourteen of thirty-one cases. With gastric irritation, it was affected in twelve. With constipation in nine.

The edges being florid, head symptoms presented themselves in eighteen of forty-nine cases. With gastric pain in thirteen. With constipation in eight.

Hence we observe that headache was remarked, with a florid and clean tongue, in twenty of forty-eight cases; with a florid and furred tongue, in eighteen of forty-four; with an anemic and clean tongue in fifty-three of ninety-nine; with an anemic and furred tongue in one hundred and five of one hundred and twenty-seven cases; with a florid apex in fourteen of thirty-one; and with florid edges in twenty-nine of forty-nine. Showing that of four hundred and ninety-two cases, headache was complained of in two hundred and thirty-eight.

Headache and fugitive pains seemed to coincide when the tongue was florid and furred. Neither of them being very prominent. When the tongue was anemic and clean, headache was observed sometimes complicated, or alternating with other symptoms.

When the tongue was anemic, furred, and *tremulous*, next to gastric irritation, headache preponderated, this symptom coinciding very closely with gastric irritability.

Also with a florid apex, the tongue being tremulous, the head evinced sympathetic irritation.

On the state of the Bowels, the Tongue being Florid or Anemic; the Apex or the Edges being Florid.

The tongue being florid and clean, constipation occurred in seventeen of forty-eight cases. Without head symptoms in eleven. With fugitive pains in six.

When the tongue was florid and furred, constipation was noticed in twenty-four of forty-four cases. Without head symptoms in fifteen. And with fugitive pains in seven.

With an anemic and clean tongue, constipation prevailed in forty-one of ninety-nine cases. Without head symptoms in fourteen. And with fugitive pains in eleven.

The tongue being anemic and furred, constipation was remarked in one hundred and forty-two of two hundred and twenty-one cases. Without head symptoms in seventy-seven. And with fugitive pains in thirty-seven.

The apex of the tongue being florid, constipation occurred in eighteen of thirty-one cases. Without head symptoms in nine. And with fugitive pains in six.

The tongue's edges being florid, constipation was complained of in twenty-three of forty-nine cases. Without head symptoms in fifteen. With fugitive pains in five.

We find that constipation was observed with a florid and clean tongue in seventeen of forty-eight cases; with a florid and furred tongue in twenty-four of forty-four instances; with an anemic and clean tongue in forty-one of ninety-nine cases; with an anemic and furred tongue in one hundred and forty-two of two hundred and twenty-one cases; with a florid apex in eighteen of thirty-one; and with florid edges in twenty-three of forty-nine. Showing that of four hundred and ninety-two cases, constipation was complained of in two hundred and sixty-five.

Constipation was a very prominent symptom of complaint, when the tongue was florid and furred.

Again, when the tongue was anemic and furred with a moist mucus, constipation was the most decided and preponderating symptom.

Constipation was observable, next in degree, to gastric pain, when the tongue's apex was florid, and its surface furred.

Also when the edges were florid, the surface of the tongue being furred, constipation was observed in a considerable number of cases, though it was not the most prominent symptom.

On Fugitive Pains, the Tongue being Florid or Anemic; the Apex or Edges being Florid.

The tongue being florid and clean, fugitive pains were noticed in eighteen of the forty-eight cases. With gastric pain and headache in six. With gastric pain and constipation in four. With headache and constipation in three instances.

With a florid and furred tongue, fugitive pains were observed in fourteen of forty-four cases. With gastric pain and constipation in one. With headache and constipation in one instance.

When the tongue was anemic and clean, fugitive pains were complained of in thirty-three of ninety-nine cases. With gastric pain and headache in nine. With gastric pain and constipation in five instances.

An anemic and furred tongue was attended with fugitive pains in fifty-two of two hundred and twenty-one cases. With gastric pain and headache in eight. With gastric pain and constipation in thirteen. And with headache and constipation in thirteen.

The apex being florid, and the surface furred, fugitive pains occurred in eleven of thirty-one cases. With gastric pain and headache in six. With gastric pain and constipation in five. And with headache and constipation in five.

The edges being florid, and the surface furred, was accompanied with fugitive pains in thirteen of forty-nine cases. With gastric pain and headache in two. With gastric pain and constipation in one.

Hence we observe that fugitive pains were noticed, with a florid and clean tongue, in eighteen of forty-eight cases; with a florid and furred tongue in fourteen of forty-four cases; with an anemic and clean tongue in thirty-three of ninety-nine cases; with an anemic and furred tongue in fifty-two of two hundred and twenty-one cases; when the apex was florid, in eleven of thirty-one instances; and with florid edges in thirteen of forty-nine individuals. Showing that of four hundred and ninety-two cases, fugitive pains were experienced in one hundred and forty-one.

Fugitive or *external* pains were but slightly observable, when the tongue was florid and clean.

Fugitive pains and headache, occasionally coincided with a florid and furred tongue.

Fugitive pains alternated with other symptoms, when the tongue was anemic and clean.

In no state of intestinal tongue were fugitive pains a preponderating symptom.

CHAPTER IX.

DEDUCTIONS FROM THE APPEARANCE OF THE TONGUE, THE PAPILLÆ NOT BEING DEVELOPED OR OBSERVABLE.

1. That a florid and clean tongue, with its varieties, was chiefly attended with gastric pain, or uneasiness.

2. With an anemic and clean aspect of the tongue, there seemed to be an equal tendency to head symptoms, gastric uneasiness, constipation, or to fugitive pains.

3. That a florid and furred tongue, and its modifications, was chiefly characterized by constipation, or by gastric irritation.

4. That when the tongue was anemic and furred, constipation was the most prevailing symptom.

When in addition it was tremulous, gastric pain preponderated. Showing that a tremulous tongue is accompanied with symptoms of greater intensity than those attending a furred appearance of this organ.

5. The edges or apex of the tongue being florid, and the surface furred, the stomach was generally the seat of irritation ; costiveness frequently occurring.

6. That gastric pain was a decided and preponderating symptom, with a florid and clean tongue. Less intense when the apex and edges were florid.

7. Headache prevailed more or less whenever the tongue was furred, whether florid or anemic.

8. Constipation was an invariable symptom when the tongue was furred, it being a very prominent symptom, with a florid and furred tongue. It being the most decided and preponderating source of complaint, with an anemic and furred tongue.

9. In no state of intestinal tongue were fugitive pains a preponderating symptom.

General Conclusions from the Deductions.

ON GASTRIC PAIN AND ON FUGITIVE PAINS.

Exalted sensibility of the stomach was observed when the filiform and tuberose papillæ were prominent and anemic.

With a florid tongue, especially when florid and clean, gastric pain was remarked.

Intense gastric uneasiness was also noticed when the pyramidal papillæ were prominent or erect, fugitive pains accompanying this prominent appearance of the pyramidal papillæ, nor were fugitive pains a preponderating symptom, excepting under such condition of the pyramidal papillæ.

ON CONSTIPATION AND ON HEADACHE.

Constipation was not a marked symptom unless the tongue was furred; and whenever constipation was a prevailing source of complaint, then headache was invariably present.

Hence it seems that a furred tongue, or headache, equally attests the presence of constipation.

CHAPTER X.

ON THE FLORID AND CLEAN TONGUE, AS INDICATIVE OF FUNCTIONAL DISTURBANCE OF THE STOMACH; WITH REMARKS ON THE TREATMENT.

The vascular excitement of the gastric mucous membrane occurs in various degrees of intensity, from a state of mere dryness, or defective secretion of the membrane, of injection, congestion or morbid fulness of the vessels; from a state of erethism or increased action, to actual inflammation. (Cyclop. Pract. Med., vol. ii, p. 628.)

Uniform red tongue, with smoothness of surface, is observed in acute gastritis. And in inflammatory dyspepsy the tongue is more or less of a bright red colour, or dry and glazed, from vascular excitement of the mucous membrane. (Ibid., 625.)

Sometimes the tongue is red, clean, and shining, or like a raw beef-steak. (Johnson.)

With the dram-drinker, the mucous membrane of the stomach presents a smooth, glass-like surface. (Cyclop. Pract. Med., p. 628.)

In constipation the tongue is foul at the root, while the sides and point are red. (Copland, p. 406.)

A florid tongue has been shown to exist as not an unusual accompaniment of diseased lungs. (Part iii.)

We observed, that whenever the tongue was florid and clean, that the symptoms were confined solely to the stomach. And that the addition of a mucous covering was attended with symptoms of constipation, besides those feelings, or symptoms attributable to a florid but clean state of the mucous membrane. (Pp. 86, 93.)

FLORID AND CLEAN TONGUE—TREATMENT OF.

Morphia or Sedatives. With a glazed, florid, moist, and clean tongue, morphia, or sedatives, was very useful in relieving the pain and griping after food, symptoms no unusual accompaniment of this peculiar aspect of tongue.

Nitrate of Silver. The nitrate of silver proved beneficial, but its efficacy was increased by combining it with an opiate.

Antimony. The potassio-tartrate of antimony, a grain to eight ounces of distilled water, and two drachms of the compound tincture of camphor formed a convenient mixture; a tablespoonful given twice or thrice daily seemed to restore the tongue to its natural colour; a pill being taken at night, containing an opiate, with a little nitrate of silver. The costiveness being removed by an aloetic purge.

Mercurials and Opiates. Mercurials, as the compound calomel pill, &c., combined with a little soap and opium, or with the extract of hyoscyamus, and an occasional sedative draught, composed of five grains of the nitrate of potash, half a drachm of acacia mixture, five minims of the black drop of Battley, in an ounce of water, was attended with satisfactory results. A preponderance of the opiate desirable.

FLORID AND FURRED TONGUE—TREATMENT OF.

Purgatives. In this aspect of tongue purgatives, as the confection of senna with a little sulphur, the infusion of senna with the decoction of aloes, and from a fourth to the eighth of a drop of croton oil in the rhubarb pill, were beneficial. *Purgation* was not advisable.

Purgo-tonics. The purgo-tonic system of treatment was satisfactory, as quinine in doubly acidulated infusion of roses twice daily; and at night a few grains of the compound extract of colocynth, or the rhubarb pill. Pemberton considered that such symptoms proceeded from irritability of the gastric muscular coat, and from increased action of the mucous cryptæ.

Antimony and Purgo-tonics. The potassio-tartrate of antimony, from the sixth to the tenth of a grain in distilled water, twice daily, and a bread pill containing the sixth of a drop of croton oil. These medicines, being followed by acids and tonics, perfected the cure.

Mercurials. Mercurials, in combination with a sedative at night, and during the day bitters and tonics, avoiding irritating the bowels, were most beneficial, a gentle cathartic being occasionally required.

Morphia. Morphia, cured or benefited, providing that the bowels were regularly and gently moved. A tono-sedative, as the compound infusion of gentian, with a little compound tincture of camphor, and a pill consisting of extract of hyoscyamus, and half a grain to a grain of the nitrate of silver, is a desirable form of medicine.

CHAPTER XI.

ON THE ANEMIC AND CLEAN TONGUE.

Dyspepsy, from weakness of stomach, is characterized by a very pale tongue, with absence of thirst. (Andral's Path. Anat., p. 228.)

When the tongue was anemic and clean, head, gastric, or fugitive pains and constipation were present, sometimes complicated or alternating. There seemed to be no preponderating symptom.

This anemic condition of the stomach is seldom a local affection, but appears to depend on general atony of the system, from whatever cause originating; and hence, most probably, the blood itself is deficient in its fibrinous component.

TREATMENT OF THE ANEMIC AND CLEAN TONGUE.

A procrastinated use of tonics and cathartics, or the vegetable bitters, afforded slight relief. But in the preparations of steel we possess a remedy of singular and invariable utility; this medicine, where there is no complication of disease, and where anæmia is the only complaint, is specific in its effects. The only symptom to be guarded against is that of its stimulating property, particularly if the bowels are constipated. A combination of a gentle purgative, as the compound decoction of aloes, with the steel mixture of the Pharmaeopœia, and a drachm or two of the vinum ferri, will obviate such probable costiveness. The sesquioxyde of iron, with senna confection, and a little jalap powder, is a useful form. For immediate benefit, and for ultimate results, there is no medicine comparable with it.

CHAPTER XII.

ON THE ANEMIC AND FURRED TONGUE.

GASTRIC TONGUE.

In faulty action of the stomach the tongue is whitish, slightly coated. (Med. Trans. Coll. Phys., vol. iv, p. 240.)

Tongue covered with a yellowish-white fur, thickly coated, in inactivity of the stomach and bowels. (Ibid., p. 238.)

In follicular gastric dyspepsy the tongue is covered with a viscid mucus, or with a continuous white fur. (Cycl. Pract. Med.)

In faulty action of the stomach the tongue is whitish, slightly coated, and the edges are of a pale red colour. (Whytt, p. 240.)

Tongue pale, flabby, whitish, or slimy, and more or less coated, characterizes atonic dyspepsy. (Cycl. Pract. Med., p. 209.)

Confusion of head, characteristic of gastric defective action, or secretion. (Med. Trans. Coll. Phys., vol. iv, p. 251.)

DUODENAL TONGUE.

The tongue large, broad, soft, and flaccid, furred, with a yellowish coat at the base, in duodenal dyspepsy, or where there is deficient tone or sensibility of the duodenum. (Cycl. Pract. Med.)

A loaded state of the upper bowels, or duodenum, causes headache, as these headaches are always relieved by medicines that act on these parts of the intestinal canal. Therefore headache is characteristic of inactivity of the upper bowels. (Med. Trans. Coll. Phys., vol. iv, pp. 249-51.)

In follicular duodenal dyspepsy the tongue is moist, pale, and flabby, covered with a pearly white mucous coating, seldom much loaded; sometimes there is a thick, shaggy, cottony fur. (Cycl. Pract. Med., p. 613.)

In spasm of the duodenum, with acidity of the stomach, the tongue and lips grow dry, and are divided by fissures; the former is covered by a rough bilious crust. (Ferriar's Med. Hist., vol. ii, p. 28.)

The tongue is covered with a white crust, brown towards the root, in derangement of the duodenum. (Med. Trans. Coll. Phys., vol. vi, p. 352.)

CÆCAL TONGUE.

In cæcal derangement the tongue is white or loaded at its centre and base; sometimes red at its point and edges. (Copland's Dict., p. 276.)

COLONIC TONGUE.

An œdematous state of the tongue receiving the impressions of the teeth, indicative of a loaded state of the colon. (Hodgkin, vol. ii, p. 226.)

In atony of the colon the tongue is loaded, flabby, sometimes large, presenting fissures on its surface, and the impression of the teeth on its edges. (Copland's Dict., p. 383.)

The tongue being furred, whether the papillæ were florid or anemic, betokened, or was accompanied with constipation, although costiveness was not an urgent symptom.

When the tongue was furred, whether florid or anemic, constipation was a very prominent symptom.

And further, headache prevailed more or less whenever the tongue was furred, whether it was florid or anemic. Nor was constipation a marked symptom, unless the tongue was furred. (Deductions.)

GASTRIC TREATMENT.

The tongue moist and white. The black draught followed by camphor mixture and aromatic spirit of ammonia. When acidity is present, the extract of gentian with the sesquicarb. of soda. (Pemberton on the Abdominal Viscera, p. 125.)

Tongue moist, coated with a thick, white, smooth, tenacious paste, no thirst, or bitter taste, but the food is tasteless, clammy feel in the mouth. (Graves's Clin. Med., p. 749.)

Here antimony, tartar emetic, in a tablespoonful of water every hour for two days, low diet, if nausea be induced diminishing the dose; continuing this plan till dinner-time the third day, when a hearty meal is allowed, followed in an hour by an emetic of ipecacuanha powder from fifteen to twenty grains, with one grain of emetic tartar. Pursue for another three days the like plan. (Ibid.)

Ipecacuanha useful chiefly in weakness of the stomach. (Daubenton, p. 20.)

Gastric disturbance (embarras gastrique) is certainly not gastritis. When this affection exists it yields to stimulating cathartics, and resists bloodletting.

We are not taking into account the cases in which we have seen the health re-established after evacuations excited both upwards and downwards in persons in whom derangement was indicated by the following signs: loss of appetite, bad taste in the mouth; the tongue, which was broad and pale at the apex and edges, was covered with a whitish or yellowish coat, *without this coat presenting any red points*, &c.

In such cases are there *saburræ* in the alimentary canal? And do emetics and purgatives restore these powers by exciting the intestinal tube and its appendages? (Spillan's Andral, p. 873.)

The pain of stomach when full, from irritability of muscular coat. Here the tongue towards the root is covered with white mucus. Here also is headache. This demands steel mixture combined with a few drops of laudanum. (Pemberton, p. 117.)

DUODENAL TREATMENT.

The method which I have found most successful in this disorder (spasm of duodenum) is to give repeated small doses of the aloetic tincture so as to keep the body rather loose, to use daily exercise on horseback, &c. (Ferriar's Med. Hist., vol. ii, p. 29.)

The treatment that experience has taught me to be most advantageous, is to keep the intestines gradually and mildly excited, in inactivity of the duodenum. (Yeats on Duodenum, Med. Trans. Coll. Phy., vol. vi, p. 355.)

Under such circumstances calomel with purgative salts, and subsequently stimulants and tonics, produce no permanent good effects, for the duodenum relapses into its inactivity after a brisk purge. I have particularly remarked this of calomel. (Ibid.)

The preparations of steel create nausea, simple bitter infusions lie cold and heavy on the stomach, yet when bitters are combined with a cathartic, they produce the happiest effects; a scruple of quassia, and the same quantity or two drachms of senna infused in a pint of boiling water for an hour produce the composition I employ; one ounce and a half of this infusion morning and noon with a pil. hyd., three grains, at night, for a fortnight most generally removes this uneasy state of the duodenum. (Ibid., p. 356.)

Sometimes when there are feverish heats, instead of senna I add a scruple of the sulphate of potash to each dose, and two or three grains of the extract of aloes to each pill, according to the state of the bowels. The saline effervescing draught is sometimes substituted with the sulphate of potash for the bitter infusion. (Ibid.)

Periodical mucous collections sometimes take place in the duodenum with the other symptoms of duodenal irritation. I have found it necessary to give a few minims of laudanum at night to quiet the irritation, at other times an ipecacuanha emetic has excited the chylopoictic organs. (Ibid., p. 367.)

CÆCAL TREATMENT.

Full doses of calomel followed by copious enemata of the oleaginous, saponaceous, and solvent kind, the terebinthinate being preferable in flatulent cases; and in the use of liniments by friction over the cæcal region, as one part of the liquor ammoniæ to two of olive oil, three of oil of turpentine, with two of camphorated spirit, and four or five drachms of soap.

Purgatives being given, or cathartics, according to the requirements of the case. Tonics and bitters subsequently. (Ibid., p. 277.)

COLONIC TREATMENT.

In functional torpidity of the colon, purgatives that procure full, bulky, and not frequent evacuations should be selected, as aloes, senna combined with gentian, castor oil, rhubarb and magnesia, precipitated sulphur, compound jalap powder, &c., operate in this manner. Or the combination of tonics and purgatives. In fecal collections to a great extent clysmata are indispensable remedies, as the soap injection, with or without castor or olive oil, &c., and the turpentine triturated with white of egg, or mucilage, will have a most beneficial effect. (Copland's Dictionary, p. 385.)

TREATMENT OF THE ANEMIC AND FURRED TONGUE.

Purgatives. Aloetic purges, or purgation, induced by gamboge, croton oil, calomel, and other cathartics, afforded temporary relief.

Mercurials. The preparations of mercury, as calomel, or blue pill, were not successful, excepting when given to produce a relaxed state of the bowels; and even then the effect was limited to the purgative operation, the bowels becoming again sluggish.

Tonics and Cathartics. The purgo-tonic treatment was attended with most satisfactory results.

Quassia, quinine, gentian, aloes, rhubarb, and the nitrate of silver; the neutral salts, with bitters, as quinine in the compound infusion of roses, with a little sulphate of magnesia, fulfilled our expectations.

Steel. The preparations of iron, when combined with a purgative, occasionally disagreed, and when borne, were slow in improving the functional derangement.

REMARKS ON THE TREATMENT OF THE ANEMIC AND FURRED TONGUE.

We have shown, from the observations of writers, that in torpidity of the intestinal canal from the stomach to the colon, that the tongue presents a similar aspect, being anemic, and more or less furred.

It was also inferred, by our own deductions, that this peculiar tongue was generally characteristic of costiveness.

It seems that the principle that actuated writers in their treatment, was to stimulate or increase the peristaltic action, thereby producing copious evacuations both upwards and downwards.

Copland, in an excellently compiled article, Constipation, gives a succinct statement of the treatment most applicable in torpid peristaltic action, highly recommending the purgo-tonic system, with occasional stimulating liniments to the abdomen, or clysters soapy or oily, or cold water injections. (Dictionary, p. 411.)

Our own observations fully testify to the special application of the purgo-tonic treatment in an atonic condition of the gastro-intestinal canal.

It is not surprising that fecal accumulations should occur in those parts of the canal where, together with atony of the muscular coats, the contents of the bowels have to be forwarded against gravity, as in a portion of the duodenum, and in the cæcum, and in part of the colon.

It may be observed that the inconvenience attending constipation is chiefly noticed throughout that course of the intestines whose peristaltie movement is controlled by the par vagum, the termination of which nerve seems to coincide with the disappearance of the circular muscular coat of the intestines.

Swan states "that probably there is a modification in the sensibility of the canal from the stomach downwards;" very likely this modified sensibility of certain portions of the intestines may be the cause why the retention of fecal accumulations in those particular parts, as the stomach, duodenum, and cæcum, is accompanied with so much sympathetic constitutional disturbance.

It is our impression that medicaments for the atonic and furred tongue produce contractions of the circular muscular covering of the intestines, and that griping or stimulating the par vagum is confined to this particular covering of the bowels. If this surmise be correct, in colonic fecal accumulations, strychnine alone would be unsuccessful, and, so far as our observation extends, such is actually the fact.

It follows, from these remarks, that irritation of the filaments of the par vagum, either by fecal accumulations or by strychnine, may cause painful contractions of the stomach and intestines as far as the cæcum, and also palpitation of the heart, *but not headache!* This latter symptom is most likely induced by the irritation of the sensitive spinal nervous branches, situated near the termination of the colon, by which the sensory or cerebral hemispheres become affected.

PART III.

TONGUE OF ORGANIC CHANGE OF THE LUNGS AND HEART.

CHAPTER I.

PRELIMINARY REMARKS.

When tubercular solidification occurs at the apex of either lung, irritation is established and increases, as the function of aeration becomes circumscribed; the volume of blood diminishes, as to accommodate itself to the abridged portion of healthy or permeable lung: hence, atrophy of the muscular system, and general anemia of the body; hence, anasarca and internal effusions, when there exists no outlet of relief by the bronchiæ; hence, dyspnœa and oppression of the heart.

If the liver becomes enlarged, or contracted, as in cirrhosis, we have general or local dropsy; by analogy, if a portion of lung becomes solidified, a similar effect of impeded circulation may ensue, thus aggravating the dyspnœa by the pressure of the effused fluid on the diaphragm, or on the healthy lung. It is in such cases that diarrhœa and perspirations so frequently occur, as though the skin and bowels tended to relieve the oppression by carrying off the extraneous fluid. It was remarked by Louis, that the perspirations coincided with the diarrhœa when the alvine evacuations were numerous, and that the diarrhœa seemed to be an alteration of secretion, and not depending on ulceration of the mucous membrane; if so, diarrhœa may be viewed as a test of the presence of such effusion. Hence the skin, kidneys, and bowels may assume a supplemental function to relieve the oppressed lungs; nor are such symptoms to be considered otherwise, than as signs of impeded circulation.

It would be an interesting subject to trace the progressive changes in the apparatus of the lungs, as they become gradually disorganized in phthisis, with the corresponding attempts made by other organs, or tissues, to maintain the balance of the pulmonary function.

Those cases of consumption which possess an outlet of relief are less apt to terminate so speedily as those which present no means of maintaining the balance of circulation; in this latter class the general symptoms are more urgent, and terminate in a shorter period.

When the system is relieved by the skin, kidneys, or bowels, or, as with females, by leucorrhœal draining, or by menorrhagic symptoms, the period of existence depends on the means employed for meeting urgent symptoms; and whether the patient may exist few or many years, must often depend on the skill of the attendant in selecting and adapting appropriate treatment.

CHAPTER II.

TONGUE OF CONSUMPTION, WITH THE ACCOMPANYING SYMPTOMS. A SUMMARY OF THE SAME, AND REMARKS.

TABULAR ARRANGEMENT.

PULMONARY LESION.				ACCOMPANYING SYMPTOMS.		
No.	*Sex.*	*Age.*	*Tongue's Aspect.*	*Bowels.*	*Stethoscopic Signs.*	*General Symptoms.*
1	Male	46	Florid uniformly, clean	No report	Resonance general	Cough, expectoration, hæmoptysis, anasarca,
2	Female	35	Florid uniformly, clean	No report	Resonance right lung	Movement of nostrils, perspirations
3	Female	54	Florid uniformly, clean	No report	Resonance right lung	Cough, dyspnœa
4	Female	20	Florid uniformly, clean	No report	No report	Cough, perspiration
5	Female	19	Florid uniformly, clean	No report	Consolidation, congestion	Cough, dyspnœa
6	Female	12	Florid uniformly, clean	Costive	Resonance right lung	Movement of nostrils
7	Female	20	Florid uniformly, clean	Costive	Resonance right lung	Cough, perspiration
8	Female	18	Florid uniformly, clean	Relaxed	Resonance right lung	Cough, movement of nostrils, perspirations
9	Male	18	Florid uniformly, clean	No report	Resonance right lung	Hæmoptysis, pain in epigastrium, œdema of feet, expectoration
10	Female	13	Florid uniformly, clean	No report	Resonance right lung	Mesenteric complication
11	Male	22	Florid uniformly, clean	No report	Resonance and cavities	Hæmoptysis, perspirations, expectoration
12	Male	25	Florid uniformly, clean	Relaxed	Cavities	Cough, perspirations
13	Female	35	Florid uniformly, clean	No report	Tubular respiration	Perspirations, ascites

PULMONARY LESION.				ACCOMPANYING SYMPTOMS.		
No.	*Sex.*	*Age.*	*Tongue's Aspect.*	*Bowels.*	*Stethoscopic Signs.*	*General Symptoms.*
14	Male	70	Florid uniformly, clean	No report	Resonance right lung	Cough, expectoration, anorexia
15	Female	24	Florid uniformly, clean	Irregular	Resonance right lung	Cough, expctoration, perspirations
16	Female	17	Florid uniformly, clean	Regular	Resonance right lung	Diabetic symptoms
17	Female	38	Florid uniformly, clean	Relaxed	Resonance general	Menorrhagia, expectoration
18	Female	38	Florid uniformly, clean	Irregular	Resonance general	Menorrhagia
19	Male	46	Florid uniformly, clean	No report	Resonance general	Expectoration, perspiration
20	Female	20	Florid uniformly, clean	Irregular	Resonance right lung	Perspirations
21	Female	57	Florid uniformly, clean	Costive	Resonance right lung	Dilated action of the heart
22	Female	20	Florid uniformly, clean	Costive	Diseased	Cough, expectoration
23	Female	23	Florid uniformly, clean	No report	Resonance right lung	Menorrhagia, movement of nostrils
24	Male	59	Florid uniformly, clean	Regular	Resonance right lung	Cough, expectoration, ascites, anasarca
25	Female	30	Florid uniformly, clean	Costive	Diseased both lungs	Cough, expectoration
26	Male	43	Florid uniformly, clean	No report	Resonance general	Cough, dyspnœa
27	Male	44	Florid uniformly, clean	No report	Resonance right side	Cough, emaciation
28	Male	25	Florid uniformly, clean	Costive	Resonance right side	Cough, perspirations, rigors
29	Female	20	Florid uniformly, clean	No report	Resonance general	Cough, expectoration, perspirations
30	Male	59	Florid uniformly, clean	Costive	Hepatization right lung	Cough, expectoration, œdema
31	Male	20	Florid uniformly, clean	Diarrhœa	Resonance general	Cough, perspirations, movement of nostrils
32	Female	17	Florid uniformly, furred	Regular	Resonance right lung	Cough, dyspnœa, menorrhagia, perspiration

PULMONARY LESION. ACCOMPANYING SYMPTOMS

No.	*Sex.*	*Age.*	*Tongue's Aspect.*	*Bowels.*	*Stethoscopic Signs.*	*General Symptoms.*
33	Male	26	Florid uniformly, furred	No report	Resonance both lungs	Cough, dyspnœa, expectoration
34	Male	24	Florid uniformly, furred	Costive	No report	Dyspnœa, hæmoptysis
35	Female	22	Florid uniformly, furred	Relaxed	Pectoriloquy left lung	Cough, dyspnœa, movement of nostrils
36	Female	21	Florid uniformly, furred	Relaxed	Resonance right lung	General pains, perspirations
37	Female	15	Florid uniformly, furred	Relaxed	Resonance right lung	Perspirations, emaciation
38	Female	22	Florid uniformly, furred	Regular	Resonance right lung	Dyspnœa, expectoration
39	Female	23	Florid uniformly, furred	Costive	Resonance right lung	Cough, expectoration, hæmoptysis
40	Female	22	Florid uniformly, furred	No report	Pectoriloquy	Expectoration, perspiration, cough, emaciation
41	Female	46	Florid uniformly, furred	Relaxed	Resonance right lung	Sinking sensations
42	Male	20	Florid uniformly, furred	No report	Resonance right lung	Movement of nostrils
43	Male	19	Florid uniformly, furred	Relaxed	Resonance right lung	Cough, expectoration, perspiration
44	Male	34	Florid uniformly, furred	No report	Resonance right lung	Dyspnœa, gastric pain
45	Female	23	Florid uniformly, furred	Costive	Diseased lungs	Urine copious and frequent
46	Female	16	Florid uniformly, furred	No report	Diseased lungs	Cough, perspirations
47	Male	26	Florid uniformly, furred	Regular	Resonance general	Cough, aphonia
48	Male	44	Florid uniformly, furred	No report	Diseased lungs	Cough, perspiration, anasarca
49	Female	45	Florid uniformly, furred	Costive	Resonance right side	Cough, dyspnœa
50	Male	35	Florid uniformly, furred	No report	Resonance right lung	Cough, hæmoptysis, perspiration
51	Female	23	Florid uniformly, furred	Costive	Resonance right lung	Expectoration, urine copious, emaciation

PULMONARY LESION.				ACCOMPANYING SYMPTOMS.		
No.	*Sex.*	*Age.*	*Tongue's Aspect.*	*Bowels.*	*Stethoscopic Signs.*	*General Symptoms.*
52	Female	20	Florid uniformly, furred	No report	Disease general	Cough, dyspnœa
53	Male	18	Florid uniformly, furred	Relaxed	Resonance right side	Perspiration
54	Male	34	Florid uniformly, furred	Regular	Resonance right side	Cough, dyspnœa, urine copious
55	Male	21.	Florid uniformly, furred	Relaxed	Resonance general	Cough, expectoration, perspiration
56	Female	27	Florid uniformly, furred	Regular	Resonance right lung	Dyspnœa, hæmoptysis, leucorrhœa
57	Male	24	Florid uniformly, furred	Regular	Pectoriloquy	Perspiration, movement of nostrils
58	Male	32	Florid uniformly, furred	Regular	Resonance left lung	Cough, expectoration, perspiration, movement of nostrils
59	Female	24	Florid, right half furred	Costive	Resonance right lung	Movement of nostrils, leucorrhœa
60	Male	18	Florid, right half furred	Regular	Diseased generally	Cough, perspiration
61	Female	20	Florid, left half furred	Irregular	Resonance right lung	Cough
62	Female	34	Florid, left half furred	No report	Resonance right lung	Movement of nostrils
63	Female	34	Florid, left half furred	Regular	Resonance general	Cough, expectoration, perspiration
64	Female	29	Florid, furred	Diarrhœa	Disease general	Cough, expectoration, dyspnœa
65	Male	22	Florid, furred	No report	Resonance right side	Cough, nausea, urine copious
66	Female	21	Florid edges, surface furred	Costive	No report	Hæmoptysis, expectoration
67	Male	31	Florid edges, surface furred	Relaxed	Resonance right lung	Cough, expectoration
68	Female	38	Florid edges, surface furred	Costive	Resonance right lung	Expectoration, perspiration, cough
69	Male	30	Florid edges, surface furred	Regular	Resonance left lung	Anasarca, enlarged spleen, &c.
70	Male	23	Florid edges, surface furred	Costive	Resonance right lung	Cough, expectoration
71	Male	35	Florid edges, surface furred	No report	Resonance right lung	Pains in knees
72	Male	19	Florid edges, surface furred	No report	Resonance right lung	Expectoration

PULMONARY LESION.				ACCOMPANYING SYMPTOMS.		
No.	*Sex.*	*Age.*	*Tongue's Aspect.*	*Bowels.*	*Stethoscopic Signs.*	*General Symptoms.*
73	Female	22	Florid edges, surface furred	No report	Pectoriloquy	Cough, perspirations
74	Male	19	Florid edges, surface furred	Costive	Diseased lungs	Rigors, prostration
75	Male	33	Florid edges, surface furred	Costive	Respiration tubular	Cough, expectoration
76	Male	24	Florid edges, surface furred	Regular	Resonance right lung	Perspirations
77	Female	30	Florid sides, surface furred	No report	Resonance right lung	Perspirations, menorrhagia
78	Female	44	Florid sides, surface furred	Costive	Resonance right lung	Dyspnœa, cough, perspiration
79	Male	17	Florid sides, surface furred	No report	Consolidated superiorly	Cough, dyspnœa, hæmoptysis
80	Female	26	Florid sides, surface furred	Irregular	Resonance right lung	Cough, expectoration
81	Female	4	Florid sides, surface furred	Regular	Resonance right lung	Cough, perspirations
82	Female	17	Florid sides, surface furred	Regular	Resonance right lung	Cough, expectoration, dyspnœa
83	Female	40	Florid sides, surface furred	Costive	Resonance right lung	Expectoration
84	Female	28	Florid apex	Costive	Resonance right lung	Leucorrhœa
85	Female	22	Florid apex	Costive	Resonance general	Perspiration, palpitation
86	Male	21	Florid apex	Costive	No report	Cough, dyspnœa, movement of nostrils, hæmoptysis
87	Female	33	Florid edges and apex	Costive	Diseased left lung	Dyspnœa, perspiration
88	Female	26	Florid edges and apex	Regular	Resonance left lung	Cough, expectoration, dyspnœa, movement of nostrils
89	Female	19	Anemic	Costive	Resonance right lung	Movement of nostrils
90	Female	48	Anemic	Costive	Resonance right lung	Menorrhagia, emaciation
91	Female	26	Anemic, furred	Costive	Resonance left lung	Heart accelerated, influenza

PULMONARY LESION.				ACCOMPANYING SYMPTOMS.		
No.	*Sex.*	*Age.*	*Tongue's Aspect.*	*Bowels.*	*Stethoscopic Signs.*	*General Symptoms.*
92	Female	19	Anemic, furred	Costive	Tubular respiration	Perspiration
93	Female	31	Anemic	No report	Resonance right lung	Menorrhagia
94	Female	34	Anemic	Relaxed	Resonance right lung	Anasarcous lower extremities
95	Female	42	Anemic	Pain	Resonance right lung	Menorrhagia or leucorrhœa
96	Female	24	Anemic, furred	No report	Resonance right lung	Cough, perspiration, chills
97	Male	22	Anemic, furred	No report	Resonance general	Cough, perspiration, anarsaca
98	Male	26	Anemic, furred	No report	Resonance right side	Cough, expectoration, dyspnœa, chills
99	Male	43	Anemic, furred	Diarrhœa	Resonance right lung	Cough, expectoration, urine copious
100	Female	39	Anemic	Costive	Resonance right side	Dyspnœa
101	Female	45	Anemic	Regular	Resonance right lung	Menorrhagia, cough, chills, &c.
102	Male	24	Anemic	Costive	Resonance left lung	Perspirations

NUMERICAL SUMMARY.

Pulmonary Tongue.

TONGUE FLORID WHOLLY OR PARTIALLY, OR ANEMIC, SURFACE BEING FURRED OR CLEAN.

ONE HUNDRED AND TWO CASES, OF WHICH

THE TONGUE WAS

Florid uniformly and clean in	31
Florid uniformly and furred in	29
Florid, right half furred in	2
Florid, left half furred in	3
Florid edges, surface furred in	11
Florid sides, surface furred in	7
Florid apex in	3
Florid edges and apex in	2
Anemic, furred, or clean in	14

BOWELS.

Constipation	30
Regular	17
Irregular	5
Relaxed	15
No report	34

STETHOSCOPIC SIGNS.

Resonance in right lung	59
Resonance in left lung	7
Resonance general	13
Pectoriloquy or cavities	5
Respiration tubular	3
No report	11

GENERAL SYMPTOMS.

Cough	53
Expectoration	33
Hæmoptysis	9
Perspirations	39
Movement of the nostrils	14
Menorrhagia	9
Dyspnœa	22
Anascarca or œdema	8
Mesenteric complication	2
Ascites	2
Diabetic symptoms	1
Heart dilated	1
Emaciation	4
Gastric pain or sinking	3
Aphonia	1
Urine copious	5

Leucorrhœa	4
Nausea	1
Rigors or chills	4
Palpitation	1

Cough, expectoration	25
Cough, perspiration	7
Cough, expectoration, perspiration	8
Cough, dyspnœa	5
Cough, dyspnœa, perspiration	1
Cough, movement of nostrils, perspiration	2
Expectoration, perspiration	1

The tongue was florid in eighty-eight of one hundred and two cases, and anemic in fourteen. It was observed, that in several instances the tongue was highly injected at the time that the pulmonary disease commenced, and that afterwards it became more natural in appearance. In one instance fistula in ano formed, and in another profuse leucorrhœal symptoms ensued.

That the mucous covering of the tongue, which is continuous with the like membrane leading to the lungs and stomach, should sympathize in appearance with either of these viscera, when the membrane lining them is affected, is a result which might be anticipated from the similarity of structure, and from the continuity of surface.

Such supposition is clearly borne out by our inquiry, and we find that the papillæ of the stomach, when in a state of irritation, are accompanied by a prominent, anemic, or vascular appearance of the papillæ on the tongue; and it has been shown that the gastric mucous membrane may be deranged, without the papillæ evincing sympathetic irritation. It seems, therefore, a necessary inference, that a diseased condition of the pulmonary mucous membrane may be attended by an altered appearance of the lingual surface.

This view is corroborated by the absence of gastric, or intestinal, symptoms with a florid state of the lingual membrane, consequent on pulmonary disease. For, when the tongue was florid and clean, the bowels presented no observable deviation from the healthy standard. The few cases in which they were relaxed, there seemed to be less tendency to expectoration.

With a florid and furred tongue, whether florid and furred uniformly, or the right or the left half being furred, or the edges or the sides being florid, with a furred surface, there was present no urgent intestinal symptom. It was remarked, that when the left half of the tongue was furred, that the opposite or right lung was disorganized.

When the tongue was anemic, there was no peculiarity of symptoms. A tendency to menorrhagia, leucorrhœa, or anasarcous œdema of the lower extremities being noticed in greater proportion than when the tongue was florid.

CHAPTER III.

PNEUMONIC HEPATIZATION OF THE LUNGS, AND PULMONARY INFARCTION. THE CASES FROM ANDRAL'S CLINICAL MEDICINE. THE TONGUE'S ASPECT.

TABLE OF CASES.

PNEUMONIC HEPATIZATION OF THE LUNGS.				INFARCTION OF THE LUNGS.			
No.	*Sex.*	*Age.*	*Tongue's Aspect.*	*No.*	*Sex.*	*Age.*	*Tongue's Aspect.*
1	Female	54	Red, dry	1	Male	33	Florid, moist
2	Male	33	Florid edges, surface white	2	Male	24	Florid apex and edges, furred, almost normal, then dry
3	Male	60	Florid and moist, then whitish	3	Male	28	Florid apex
4	Male	38	Florid, then red and pasty	4	Male	19	Florid
5	Male	21	Florid, but first whitish	5	Male	28	Florid, furred, dry and pale, moist
6	Male	27	Florid apex and edges, furred surface	6	Female	17	Florid apex and dry, smooth, brown, and then black
7	Male	21	Florid apex, surface furred, then red, then dry, or as burnt cream, then dry, or as parchment	7	Male	45	Florid, dry, brown
8	Male	25	Florid apex and edges, furred, then white and moist	8	Male	22	Florid, dry, moist, dry, moist, natural
9	Male	17	Florid apex and edges, surface white, then dry, then moist	9	Male	50	Florid, dry in centre, then black
10	Male	27	Florid and moist, dry and brown, then florid	10	Male	55	Dry

PNEUMONIC HEPATIZATION OF THE LUNGS.

No.	*Sex.*	*Age.*	*Tongue's Aspect.*
11	Male	28	Florid and dry, dry and cleft, moist, then relapsed
12	Male	52	Florid and dry, black fur
13	Male	57	Dry and black
14	Male	58	Whitish
15	Male	37	White, moist, clean (Pleuropneumony partial hepatization)
16	Male	61	Furred, thick and yellow
17	Male	58	Whitish, then dry
18	Male	51	Furred, green
19	Male	25	Moist, dry, dry and black
20	Male	55	Dry and brown, black and dry
21	Male	56	Pale, dry, then brown
22	Male	26	Dry and yellowish, then black
23	Female	23	White, dry, black and incrusted
24	Male	27	Pale and dry, white and moist, normal, then like parchment
25	Male	21	Dry

INFARCTION OF THE LUNGS.

No.	*Sex.*	*Age.*	*Tongue's Aspect.*
11	Female	75	Dry and brown
12	Male	50	Dry, furred, moist, very dry
13	Male	60	Dry, pale
14	Male	34	Dry yellow fur, black crust
15	Female	18	Dry yellowish fur, dry, and covered with black crusts
16	Male	32	Moist and white
17	Female	26	Moist and white
18	Male	46	White
19	Male	16	White
20	Male	60	Furred with dark mucus
21	Male	80	Furred with yellowish mucus, tremulous

NUMERICAL SUMMARY.

PNEUMONIC HEPATIZATION AND INFARCTION.

FORTY-SIX CASES, OF WHICH

THE TONGUE WAS

Florid in	20
Florid and moist in	5
Florid and dry in	12
Florid, dry, and then black in	3
Florid, and then like parchment in	1
Florid, dry, and then brown in	2
White in	11
White and moist in	3
White and dry in	5
White, dry, and then black in	8
White, and then like parchment in	1
Black in	11
Dry in	27

A florid tongue was noticed in twenty cases, in eight of which the apex and edges were especially observed to be red.

The tongue was white in eleven of the forty-six cases. And in eleven it became ultimately incrusted with a black fur. In two instances it became in appearance like parchment.

Dryness of the tongue's surface presented itself in twenty-seven of the forty-six cases ; this aspect seems to have existed in singular disproportion, as to render this peculiar appearance of the tongue almost a necessary accompaniment of pneumonia, or of pulmonary infarction.

It was remarked that the aspect of the tongue underwent frequent changes, passing from a florid to a brown and black appearance, or from a red to a white and moist state, or the surface, from being white and dry, became incrusted with a black fur.

CHAPTER IV.

THE TONGUE IN CARDIAC LESION. TABULAR ARRANGEMENT OF THE CASES, WITH A SUMMARY, AND INFERENCES FROM THE SAME.

TABULAR ARRANGEMENT.

CARDIAC LESION.				ACCOMPANYING SYMPTOMS.		
No.	*Sex.*	*Age.*	*Tongue's Aspect.*	*Bowels.*	*Stethoscopic Signs.*	*General Symptoms.*
1	Female	19	Anemic, or blanched	Relaxed	Valvular opacity of left ventricle	Bellows-sound, pains in joints and legs
2	Female	15	Anemic, or blanched	No report	Dilatation	Pain in cardiac region, œdema of face, headache
3	Male	42	Anemic, or blanched	Regular	Saw-sound a yard off	Pain in left arm, nor other complaint
4	Female	68	Anemic, or blanched, fissured	Costive	Ossification	Dyspnœa, pulse almost imperceptible, pain in knee, head throbbing
5	Female	70	Anemic, or blanched	Costive	Dilatation anemic	Languor extreme, jerking pulse
6	Female	55	Anemic, or blanched	No report	Ossification	Dyspnœa, pulse small and weak, throbbing head
7	Female	35	Anemic, or blanched	Regular	Hypertrophy	Pulse indistinct, pains in legs, hands and feet œdematous
8	Female	46	Anemic, or blanched	Diarrhœa	Ossification	Palpitation, head confused, aspect blanched
9	Female	36	Anemic, or blanched	Costive	Dilatation	Dyspnœa, cardiac pain, face and lower extremities œdematous

CARDIAC LESION.				ACCOMPANYING SYMPTOMS.		
No.	*Sex.*	*Age.*	*Tongue's Aspect.*	*Bowels.*	*Stethoscopic Signs.*	*General Symptoms.*
10	Female	55	Anemic, or blanched	Regular	Ossification valvular	Dyspnœa, general dropsy, urine scanty
11	Female	62	Florid, or of a dull red	Regular	No report	Dyspnœa, pain, scrob. cordis, palpitation, slight cough
12	Female	23	Florid, or of a dull red	Diarrhœa	Ossific deposit	Dyspnœa, perspiration, languor, drowsiness
13	Male	39	Florid, or of a dull red	No report	Dilatation	Tightness of chest, throbbing
14	Female	48	Florid, or of a dull red	Regular	Hypertrophy	Dyspnœa, general pains, pulse small, dropsy, gastric sinking, dyspeptic
15	Male	39	Florid, or of a dull red	Costive	No report	Pain in scrob. cordis and right shoulder
16	Female	33	Florid, or of a dull red	Relaxed	Hypertrophy concentric	Dyspnœa, ascites, and anasarca, urine scanty
17	Female	41	Livid, lips venous	Regular	Dilatation right side	Pain in left side and limbs, languor
18	Female	10	Natural	Regular	Dilatation	Ascites
19	Female	70	Natural	Regular	Hypertrophy excentric	Choking feel on lying down
20	Male	55	Natural	No report	Regurgitation	Dyspnœa, pain cardiac, and in arms, drowsiness, pulse small
21	Male	36	Natural	Relaxed	Diseased valves	Dyspnœa, giddiness, or syncope
22	Female	16	No report	Costive	Ossification	Pain in legs and œdema, sinking feel
23	Male	51	No report	No report	Hypertrophy concentric	Dyspnœa, palpitation, œdema of feet and legs

NUMERICAL SUMMARY.

Cardiac Tongue.

TWENTY-THREE CASES, OF WHICH THE TONGUE WAS

Anemic or blanched in	10
Florid, of a dull or pinky hue, in	6
Livid in	1
Natural or no report in	6

BOWELS WERE

Regular in	8
Constipated in	5
Relaxed in	5
No report in	5

STETHOSCOPIC SIGNS.

Ossification, or valvular lesion in	9
Dilatation in	6
Hypertrophy, concentric, in	2
Hypertrophy, excentric, in	1
Hypertrophy in	2
Regurgitation in	1
No report in	2

CARDIAC TABULAR SUMMARY.

	Tongue Anemic.	*Tongue Florid.*	*Tongue Natural, or no Report.*	*Tongue Livid.*
Number of Cases	10	6	6	1
BOWELS.				
Regular	3	2	2	1
Costive	3	1	1	0
Relaxed	2	2	1	0
No report	2	1	2	0
STETHOSCOPIC SIGNS.				
Dilatation	3	1	1	1
Ossification	6	1	2	0
Hypertrophy	1	2	2	0
Regurgitation	0	0	1	0
No report	0	2	0	0
GENERAL SYMPTOMS.				
Dyspnœa	4	4	3	0
Pulse indistinct	3	1	1	0
Anasarcous œdema	4	2	3	0
Pain cardiac	2	0	1	0
Pain in legs and joints	3	0	1	1
Pain in left arm	1	0	1	0
Pain in scrobiculo cordis	0	2	0	0
Palpitation	0	0	1	0
Languor	0	0	0	1

The bowels do not appear to have presented any tendency to functional derangement; in thirteen cases they were regular, or nothing was stated regarding them. They were relaxed in five instances, and costive in like number.

Dilatation of the heart was observed in six individuals of the twenty-three, and in three of the six the tongue was anemic.

Ossification occurred in nine, in six of whom the tongue was blanched, or anemic.

Hypertrophy was detected in five: in one only of the five was the tongue anemic, and in two florid, and in two natural.

Regurgitation was a symptom remarked only in one instance, and then the tongue was natural.

Dyspnœa appeared in eleven of the twenty-three: in four the tongue was anemic, and in four it was florid, and it was natural in three.

Pulse was indistinct in five: in three of which the tongue was anemic.

Anasarcous œdema was complained of in nine individuals; and four of the nine presented an atonic or blanched tongue; in two the tongue was florid, and in three it was natural.

Pain cardiac was felt in only three cases, and in two the tongue was atonic.

Pain in legs and joints was experienced in five: three of whom presented a blanched tongue.

Pain in the left arm occurred in two instances; palpitation in one; and extreme languor in one.

Hence, there appears to be a greater tendency to an anemic tongue in these cardiac cases; ossification being observed with an anemic tongue in two thirds of those individuals in whom valvular opacity was detected.

It is a singular circumstance, that dyspnœa occurred in eleven of twenty-three cases when cardiac lesion was noticed; whereas, when the lungs were diseased, dyspnœa was complained of only in twenty-two of one hundred and two cases. However, it must be remembered that in pulmonary disease, expectoration, perspiration and diarrhœa, and with females leucorrhœa and menorrhagia, act by relieving the pulmonary oppression.

In heart disease, on the contrary, there seems to be no determination to the skin, or but scanty pulmonary secretion in the majority of the cases; dyspnœa, consequently, is more severely felt than with phthisical subjects.

Again, in comparing the pulmonic and cardiac general symptoms, movement of the nostrils accompanied the dyspnœa of consumption, nor was the like observed in any instance of dyspnœa from cardiac obstruction.

CHAPTER V.

ON THE ACTION OF THE ALÆ NASI AS A TEST OF DISEASED LUNGS.

Under the chapter of the tongue's appearance in cardiac lesion, we stated that the movement, or working, of the nostrils accompanied the dyspnœa of consumption, and that the like symptom was not observed in the dyspnœa of cardiac obstruction.

It was further remarked, that dyspnœa was a more urgent symptom in cardiac, than in pulmonary disease.

Such result did not coincide with our preconceived notions, as we were at a loss to understand why, in cardiac lesion, the lungs being free from disorganization, dyspnœa should yet be felt with greater intensity than when, as in consumption, the lungs were in a state of tubercular consolidation.

We know that in ordinary respiration, the diaphragm and intercostal muscles are chiefly concerned in inspiring, and that respiring results from the elasticity of the parts, and from the relaxation of the inspiratory muscles, slightly assisted by the contraction of the abdominal muscles pressing the viscera against the diaphragm. In this natural performance of the respiration, there is no movement of the nostrils.

When the respiration becomes excited, or hurried, then certain muscles assist in raising and in enlarging the thoracic cavity, as the sterno-cleido-mastoideus, the trapezii and the serrate muscles; yet in ordinary respiration, these large external inspiratory muscles do not interfere with the gentle action of breathing.

But under excited circumstances, we have an inflated nostril, as showing a necessity for the air tube being free and capacious, in proportion to the increased quantity of air drawn in, as may be observed when a horse has been rapidly exercised.

Yet movement of the muscles of the nostrils accompanies the dyspnœa of consumption, and this too, without the large inspiratory muscles being in action, the chest being apparently fixed. It seems, therefore, that the action of the alæ nasi is accessory to the function of respiration, *when that function is imperfectly performed.* As the muscles of the nostrils are under the control of the portio dura of the seventh pair of nerves, or respiratory nerve of the face, and as the movement of the alæ nasi when not excited by violent exertion, coincides with pulmonary disorganization, and as in cardiac lesion this action is not observable, we are led to the conclusion that such action of the alæ nasi is expressive of pulmonary disorganization.

CHAPTER VI.

ON THE APPEARANCE AND MOVEMENT OF THE THORAX, IN PULMONARY AND IN CARDIAC LESION.

We have previously stated that the thoracic external inspiratory muscles are inactive in consumption; the chest being fixed, and the shoulders dragged forward, presenting the winged appearance as described by writers. The chest seems flattened, a necessary consequence of the abridged portion of healthy or permeable lung, and a less portion of air suffices to carry on the function of respiration, and providing that the congestion of the lungs is relieved by expectoration, or other outlet, dyspnœa is not oppressive; occasionally, instances to the contrary occur, where there is no outlet or supplementary action, and then dyspnœa is equally oppressive as in cardiac obstruction, but these cases are the exceptions to the rule.

What a different aspect of the chest presents itself in cardiac lesion; the lungs being distended with air and with the impeded circulation, the thorax is large and convex, the shoulders are fixed and dragged backward to enable the inspiratory muscles to act with the greatest advantage for expanding the chest; and yet, with an apparently enlarged thoracic cavity, and with healthy lungs, dyspnœa is more oppressive than when the lungs are almost in a complete state of consolidation.

It must be remembered that the air-cells are compressed by the engorged blood-vessels, which latter cannot empty their contents into the left side of the heart in consequence of cardiac obstruction; and as in such cases there is no outlet of relief, like as is noticed in consumption, we have of necessity imperfect arterialization of the blood, together with oppressive dyspnœa.

CHAPTER VII.

TOBACCO TONGUE.

This aspect of tongue is generally characterized by florid edges, the surface being coated with a brownish coloured fur, tremulous.

In five sixths of the cases the head was free from pain.

The gastric symptoms were anorexia, pain after food, or a gnawing, distension, nausea, or a sensation of sinking.

The bowels were not functionally disturbed.

OPIUM TONGUE.

The characteristic appearance of this aspect of tongue was a uniform white, and moist surface, and a tremulous state of this organ.

The head was hot and occasionally painful, the eyes being lustrous, and the face flushed.

The heart's action was energetic, and the feet were cold.

AGUE TONGUE

Was almost invariably loaded with a slimy mucous fur. In one half of the cases the tongue was tremulous.

The head did not appear to be affected, nor were the bowels functionally disturbed.

TREMULOUS TONGUE.

This state of tongue was observed with prominence, or with vascularity of the papillæ, whether the tongue was florid, anemic, clean, or furred.

When the papillæ were not developed, whether the tongue was florid or anemic, clean or furred, a tremulous appearance was occasionally observed. And it was shown "that when the tongue was anemic, furred, and *tremulous*, that gastric pain was acutely felt, and preponderated over the symptoms accompanying a furred appearance of this organ."

Again, the tongue was tremulous, when tobacco or opium was used. When ague existed, tremor of this organ was noticed.

Hence, we find that a tremulous tongue was observed under various and opposite aspects of this organ, and especially when the system was influenced by narcotics, as tobacco or opium; and also when ague was present.

We therefore infer that a tremulous tongue is indicative of primary irritation of the nervo-motory system.

ON THE APHTHOUS, DIPHTHEROUS, ALBUMINOUS, OR PARCHMENT TONGUE.

This aspect of tongue commences with the appearances of small specks or blisters, which in infants, seem to depend on the irritation produced by improper diet.

Dr. Hunter observed that they were inflammatory exudations. Boerhaave states, that in acute diseases, they accompany inflammation of the viscera. Sauvage considered them as the precursors of dissolution when occurring in malignant fevers.

When the tongue becomes covered with this diphtherous or parchment-like membrane, we have observed that it generally indicates death, and has been found to depend on pulmonary, gastric, or other disorganization.

CHAPTER VIII.

CASE I.

Instance of cutaneous emphysema caused by a fistulous communication with a tuberculous cavity.

JAMES SMITH, aged 30, was admitted into hospital, stating that he had been ill seventeen weeks.

There was cutaneous emphysema on the *right* side extending across the thorax, and upwards to the neck and head; the cellular tissue on the right half of the body was crepitous on pressure; the respiration being diaphragmatic, and the features pinched or sharpened.

A fortnight after his admission the emphysema began to disappear, and on the right side of the sternum an ulcerous opening formed, followed by an escape of purulent secretion, air passing through the aperture on coughing.

His symptoms became daily aggravated; diarrhœa, increased discharge from the external opening, and colliquative perspirations, combined in reducing the system to the extreme of debility. He became suddenly worse, with urgent dyspnœa, tracheal rhonchus, and a falling pulse.

The external opening was situated on the right from the centre of the sternum, being about two inches in diameter. On making an incision from the top of the sternum to the os pubis, and dissecting away the integuments from the thorax, on the *left* side a large opening was seen situated between the first and second ribs, and extending for two inches to the left of the sternum. A cavity in the lung was perceptible containing a quantity of sero-purulent fluid; the surface of the cartilages were partially absorbed. A fistulous communication extended the whole length of the left clavicle and underneath it.

The left lung was a mass of softening tubercles; strong pleural adhesions existed; superiorly, the ulcerative process had extended through the intercostal muscles, between the first and second ribs; hence was seen the cause of the emphysema, and the passage for the sero-purulent discharge.

On the *right* side the integuments were separated from the whole of the pectoral muscle, and the sero-purulent fluid had made its way as far as the fifth rib, denuding the costal cartilages their whole length, and extending beyond their junction with the ribs.

The superior lobe of the right lung was filled with tubercles and numerous small cavities, but crepitant at the anterior edges, and exsanguined in appearance. The middle lobe was free from disease. The inferior lobe at its upper portion being loaded with tubercles, towards the base it was permeable, but congested.

Case II.

Diabetes accompanying consolidation of a portion of lung, subsequent to influenza.

A. B., aged 17, had been ill for several months; which sickness was attributed to a severe attack of influenza.

On examining the state of the chest, the right lung was found to be consolidated. The symptoms complained of were profuse secretion of urine, uneasiness in the lumbar region, gradual emaciation, and extreme weakness. The tongue was uniformly florid, the papillæ not being developed. The bowels were constipated. The quantity of urine that was passed from nine p.m. to nine a.m., or in twelve hours, was seventy ounces before the course of medicine commenced. Under the influence of opium, which was given freely, the quantity of urine was reduced to eight ounces during the same space of time, and varied between twelve and twenty-four ounces for several months. During the last forty-eight hours of her existence it increased to thirty-two ounces.

The specific gravity of the urine varied from 1·036 to 1·052, by Prout's urinometer. It may be remarked, that healthy urine, and of an amber colour, is about

1·026, by the same instrument: hence the density exceeded that of natural urine at the minimum by ten, and at the maximum by twenty-six degrees.

Sixteen ounces of urine was inspissated: it weighed, with the evaporating dish, two and a half ounces and fifty grains; but the dish weighed one ounce and a quarter and seventy-six grains; therefore the weight of the inspissated fluid was one ounce, a drachm, a scruple, and fourteen grains. It was of the colour, taste, and consistency of treacle, and measured five drachms.

The quantity of opium taken from the 31st of May to the 14th of September was twelve hundred and twenty-three grains; averaging twelve grains in the twenty-four hours. The relief obtained from the use of this drug was thus expressed in a communication from the gentleman who attended the case with me: "I cannot refrain from expressing my opinion of the beneficial effects derived from the large doses of opium, not only in palliating the cough, which latterly became troublesome, but also in preventing that exhaustion of the system under such irritating circumstances."

The tongue continued florid and moist till within a few days of her death, when it became white and dry, and brown; the mouth also being aphthous. Latterly the pulmonary symptoms were more apparently developed, but the expectoration was scanty ; an irritating cough being chiefly complained of, with œdema of the lower extremities, and occasional night perspirations.

The case was commenced on the 28th of March, and terminated on the 14th of September.

TABLE OF THE QUANTITY OF URINE PASSED.

Date.	*Urine.*	*Sp. Grav.*
March 28	oz. 70	1·041
29	60	
30	50	
31	50	
April 1	40	
2	40	1·041
3	40	
4	48	
5	32	
6	24	
7	24	
8	28	
9	24	1·049
10	16	
11	24	
12	12	
13	16	1·042
14	16	
15	16	
16	18	
17	16	1·044
18	16	
19	16	
20	16	
21	16	
22	16	
23	20	
24	14	
25	16	
26	16	
27	16	
28	16	
29	16	
30	16	1·044
May 1	12	
2	12	
3	16	
4	16	
5	12	
May 6	oz. 12	
7	13	1·036
8	12	
9	12	
10	12	
11	12	
12	10	
13	12	
14	16	1·044
15	10	
16	12	
17	10	
18	12	
19	12	
20	8	
21	12	1·044
22	12	
23	15	
24	12	
25	12	
26	12	
27	13	
28	14	
29	12	
30	14	
31	12	
June 1	13	1·048
2	12	
3	12	
4	11	
5	12	
6	14	
7	14	
8	18	
9	18	
10	18	
11	18	
12	16	
13	12	
June 14	oz. 12	
15	12	
16	12	
17	12	
18	12	
19	12	
20	16	
21	14	
22	12	
23	14	
24	14	
25	12	
26	12	
27	16	
28	12	
29	12	
30	14	1·052
July 1	12	
2	12	
3	12	
4	12	
5	12	
6	12	
7	12	
8	12	
9	20	
10	24	
11	16	
12	12	
13	16	
14	16	
15	16	
16	18	
17	20	
18	17	
19	16	
20	16	
21	18	
22	16	

Date.	*Urine.*	*Sp. Grav.*	*Date.*	*Urine.*	*Sp. Grav.*	*Date.*	*Urine.*	*Sp. Grav.*
July 23	oz. 14		Aug. 10	oz. 10		Aug. 28	oz. 16	
24	16		11	18		29	24	
25	16	1·052	12	18		30	20	
26	16		13	12		31	20	
27	24		14	12		Sept. 1	18	
28	16		15	16		2	16	
29	16		16	20		3	16	
30	14		17	12		4	20	
31	16		18	8		5	20	
August 1	18		19	8	1·052	6	24	
2	20		20	8		7	28	
3	16		21	16		8	24	
4	17		22	16		9	20	
5	16		23	12		10	16	
6	16		24	12		11	20	
7	20		25	12		12	16	
8	24		26	16		13	32	
9	24		27	12		14	32	

Case III.

Stricture and Ulceration of the Œsophagus.

Howson was admitted into hospital, complaining of his rejecting food immediately after swallowing it, attended with pain at the pit of the stomach.

A few days after his admission was found in articulo mortis, his eyes fixed and vacant, and remarkably protuberant, subsultus, or spasmodic twitchings.

Examined the body. The œsophagus was contracted about four inches above the cardiac orifice, the mucous membrane was ulcerated, and very adherent to the bifurcation of the trachea and arch of the aorta, and separated from these parts by the intervention of cellular membrane.

The stomach had a tumour on the external surface of the lesser curvature, about the size of a walnut, but not connected with the interior.

The lungs were excessively gorged with a frothy sanguineous fluid, externally they presented the natural violet hue.

The left ventricle of the heart was greatly thickened, and the left auricle dilated; the right auricle and ventricle presented nothing unnatural. The septum ventriculorum was thickened. The valves were healthy.

In the laryngeal region, the cartilages were ossified posteriorly, and apparently seemed to press on the œsophagus.

Doubtless the immediate cause of death in this case was the accumulation of blood in the lungs, the consequence of concentric hypertrophy of the left ventricle.

CASE IV.

Starvation from Enlargement of the Glands at the Cardiac Orifice of the Stomach.

In this singular case the enlargement of the glands in question prevented food from passing into the stomach, thereby inducing extreme marasmus and death. —Mrs. KERRIT, aged 53, for twelve months, or longer, had felt a difficulty in deglutition, the sensation being as though the food were stopped in its passage to the stomach; when it returned, it was streaked with blood. Under these circumstances, she came into the hospital, where she remained two or three weeks, and although, by taking fluid aliment frequently, and in small quantities, she occasionally rallied, yet, it appearing evident that no permanent benefit could be received, she was removed home and died in about a week or ten days.

The liver was enlarged, and a small portion of the edge of the left lobe adhered to the cardiac orifice of the stomach. There were two or three tubercles in the liver, each about an inch in diameter, and of the consistence of cartilage. The mucous membrane passing from the œsophagus through the cardiac orifice of the stomach was thickened, and for two or three inches into the stomach it appeared to be raised from the level of the healthy membrane, so as to define the extent of the altered tissue. The glands at the cardiac orifice were enlarged.

It seems that the solid articles of diet accumulated at the seat of the stricture caused by the thickened membrane and the enlarged glands, the œsophageal muscular fibres being thereby neutralised in their actions. When the food arrived at the constriction it would not pass beyond, and as hypertrophied parts are increased in sensibility, the irritation would, I apprehend, produce a contraction of the œsophageal muscular fibres, beginning at the stricture, and proceeding upwards; hence the food was regurgitated by mouthfuls, as it was swallowed.

Case V.

Carcinomatous Conversion of the Glands at the Pyloric Orifice of the Stomach.

James Isom, aged 34, late an in-patient, for twelve months, or longer, had suffered from vomiting, his food seldom remaining many hours on his stomach. He complained of tightness in the gastric region, and sometimes a scalding sensation was experienced, pain between the shoulders and flatulency coincided. The tongue was streaked with fur on the left half, inclined to be atonic. Was in hospital in November for several weeks, without receiving other than temporary relief, the vomiting returning at longer or shorter intervals.

Went home, and became gradually worse, increasing debility, and latterly restlessness, or inability to sleep, and hiccup attended the last few days of his existence.

The stomach was enormously dilated, and contained a quart or more of a dark-coloured fluid; the pyloric orifice was of a cartilaginous consistence, but was sufficiently open to admit of a quill passing into the duodenum; but it was evident that no solid substance could enter into that bowel.

As it is beyond question that *fluid* aliment remained in the stomach, yet it is not less evident that the pyloric orifice was not completely impervious. Why, then, did not milk and other nutritious fluids pass through this contracted opening? Is it probable that the stomach, becoming distended with food, pressed on the sides of the pylorus, and thus completely closed this opening. Such was my impression while he was in hospital, and on such principle we regulated his diet, debarring him from taking much liquid or other food at once, and by stimulating the stomach with a mild cathartic we thought slight improvement was observable in his looks, nor did he seem to lose flesh.

CASE VI.

Remarkable Conversion of the Omenta to a semi-cartilaginous Substance.

The subject of this form of disease, aged 56, dated the beginning of his illness from exposure to cold. It would seem that there was great hereditary tendency to disease, as four or five of his brothers had fallen victims to phthisis, lumbar abscess, or some form of scirrhus. The apparent symptoms gradually developed themselves, and terminated in the dissolution of the patient, in about three years from their commencement; inability to retain food on the stomach beyond an hour or two, with general dropsy, ushering in the latter period of his existence.

The stomach, at its cardiac orifice, was engorged with venous blood, in other respects it was healthy as far as the pylorus. Here it presented a thickened aspect, and would scarcely admit the extremity of a finger, being constricted by the conversion of the glands to a gristly substance, the mucous membrane being healthy.

On the external surface of the stomach, the gastro-hepatic omentum, extending from the transverse fissure of the liver to the lesser curvature of the stomach and to the upper part of the duodenum, was changed to a gristly or cartilaginous texture. The effect of such change was impediment to the circulation through the liver, which produced dropsy. The great or gastro-colic omentum was similarly changed, seeming as if contracted on itself, and constricting the transverse colon; by thus preventing the contents of the large bowel passing outward, the ascending colon was necessarily loaded.

The posterior lobe of the liver adhered strongly to the diaphragm. Touching this unusual adhesion, I may observe that nearly three years before his death he was very ill, and vomited some quarts of opaque and muco-puriform secretion; and, as the lungs presented no appearance of disease, I am of opinion that at such period an abscess formed in the liver, and emptied itself by the lungs.

Case VII.

Concentric Hypertrophy of the Heart followed by Hydrothorax.

James Everitt, aged 35, of irregular habits, presented himself at hospital the 14th of October, 1841, with dropsy of the lower extremities, and indistinct action of the heart. He died in a few days, and was examined thirteen hours after death.

The body was muscular, the chest well formed, and prominent, or convex. The thorax being opened, the lungs protruded, they were natural in appearance; the thoracic cavity was full of fluid, and the pericardium seemed distended, on opening this membrane, seven or eight ounces of serum was sponged out; the heart was hypertrophied on the left side, the thickened walls diminishing the cavities; the general outline of the heart did not appear to be larger than natural, the valves were perfect and transparent.

The lungs were healthy, the vesicular texture being remarkably close, and requiring considerable pressure to squeeze out the frothy serum. The rugæ of the inner lining of the stomach were well defined, but slightly injected in scattered patches; the liver was enlarged, and the spleen was readily torn; the kidneys were very firm in their texture; the capsule of the kidneys and the pericardium were loaded with fat.

The short period that he was in hospital before mortal symptoms appeared, prevented the accurately investigating the case; we were observant of the fixture of the thorax in respiring, and of the supplementary action of the diaphragm, which was well remarked, yet under these circumstances there was no painful suffering, and he gradually sank.

CASE VIII.

Ossific Excrescence on the semilunar Valves of the Aorta, producing patency of the Aortic Orifice.

MARY ANN STOW, aged 23, was admitted into hospital complaining of debility, a relaxed state of the bowels, night perspirations, and dyspnœa.

Her appearance was pale and anemic, the muscular system being remarkably flaccid, the carotids pulsating very perceptibly, and unusually evident.

On applying the cylinder to the heart the circulation of the left side seemed tumultuous and accompanied with a roughness, and on tracing the ascending vessels a thrilling sensation was observable, and could be felt even to the radial artery; the left ventricle by its action was judged to be thickened, and an impediment of ossific matter was supposed to exist at the origin of the aorta.

Congestion set in with urgent dyspnœa and excruciating abdominal pain, particularly on the right side in the hepatic region; she died in the evening.

The body was by no means attenuated; the thorax was completely charged with serous fluid; the lungs were healthy, but apparently contracted; the pericardium contained four ounces of serum; the heart was evidently enlarged, but flaccid, the right half being dilated, and the auricle containing some clots, the pulmonary and tricuspid valves were natural; the left ventricle was much thickened and contained some grumous blood; the semilunar valves at the aortic orifice presented a very unnatural appearance on slitting the aorta, one of the valves seemed to be converted into a mass of soft ossific matter, which compressed the two remaining valves against the aorta, and thereby prevented them acting; this irregular mass of ossific matter projected into the ventricle, being seated on that side of the valve next to the ventricle, and the valve only imperfectly closed the aortic opening, the consequence of this patency of the outlet, combined with the impediment offered by the ossific projection, was, that regurgitation would necessarily ensue. Hence the tumultuous action of the left ventricle, hence the continuation of the impulsive *ventricular* action in the carotids.

THE END.

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